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**INDUSTRIAL STACK EVALUATION WITH  
GROUND-BASED PASSIVE FT-IR SPECTROMETRY**

**Roger J. Combs  
Robert B. Knapp  
Robert T. Kroutil**

**RESEARCH AND TECHNOLOGY DIRECTORATE**

**Mark J. Thomas**

**U.S. EPA Region VII  
Kansas City, KS 66101**

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## **PREFACE**

The work described in this report was authorized under Project No. 20150/CB2, Exploratory Development. The work was started in May 2000 and completed in November 2000.

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# INDUSTRIAL STACK EVALUATION WITH GROUND-BASED FT-IR SPECTROMETRY

## 1. INTRODUCTION

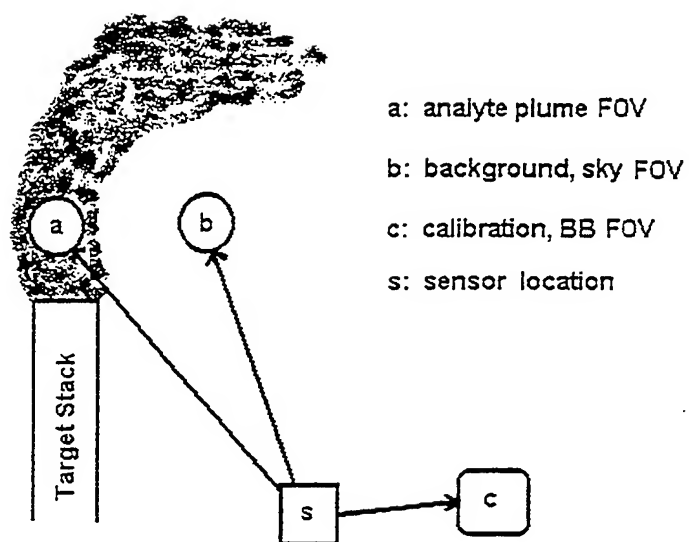
Passive Fourier transform infrared (FT-IR) spectrometry relies on a radiance differential between the target vapor plume and background for making a detection. For a ground-based FT-IR spectrometer viewing the output from the exit of an industrial stack against a cold sky background, the radiance differential is often quite large. A clear sky background provides a much larger differential than a cloud filled sky. Most measurements having been made during the course of this study view the target plumes from the various stacks against a clear sky background.

To obtain quantitative stack results with a passive FT-IR spectrometer requires a knowledge of the plume temperature at the stack exit and the evaluation of the sensor responsivity and self-emission terms (i.e., gain and offset).<sup>1</sup> Evaluation of the spectrometer radiometric performance characteristics demands the use of a controlled blackbody radiance source. This source must fill the sensor field of view and furnish at least two radiance values within the linear radiometric response range of the sensor. Thus, the minimum number of spectra that are needed for assessing the plume transmittance is four. These three types of spectra are shown in Figure 1. Both an on stack plume and an adjacent off stack plume spectra are measured at the same sensor angle of elevation above the horizon to ensure acquisition of a radiometrically accurate background.<sup>2</sup> The remaining two spectra are from a blackbody reference source and are used in conjunction with the stack temperature for removal of gain and offset terms introduced by the sensor in the form of an instrument function.

This report discusses instrumentation, radiance equations, target stacks, and resultant spectral plume measurements. Accuracy of the presented passive FT-IR spectrometer results depends on a knowledge of the plume stack temperature that is needed for removal of self-emission terms present in the instrument's optical train. No wind offers the optimal meteorological conditions for a passive FT-IR spectrometer evaluation of an industrial stack and minimizes concerns of potential interference from nearby stack effluents or large spatial fluctuations in the target plume. The present investigations considers three stack types: a coal burning power plant stack emitting sulfur dioxide, an acid plant nitrous oxide stack, and an ammonia effluent from an ammonium nitrate facility stack.

## 2. EXPERIMENT

The FT-IR spectrometer (Midac Corp., Irvine, CA; Model M2400 Series) was employed in this study. The spectrometer (Unit Serial Number, 258) was



**Figure 1.** Three types of passive infrared spectra: (a) target plume, (b) sky background, and (c) blackbody reference

equipped with a Hg:Cd:Te detector (Graseby Infrared Inc., Orlando, FL; Model HCT-100, Serial Number R-18259) that operates at liquid nitrogen temperature in a dewar housing. The field of view of the spectrometer was limited to 3 milliradians with a telescope fore optic having a 25.4 cm diameter front aperture. The sensor was boresighted with a coaxial aligned visible camera to digitally document the acquisition of the three types of passive infrared (IR) spectra depicted in Figure 1. The boresighting was accomplished by positioning a 1550K silicon carbide infrared source with a 2000 cm<sup>2</sup> aperture at a distance comparable to that of the target stack.

The power plant stacks were located approximately 440 feet from the sensor, and the nitrous oxide stack was about 1000 feet from the sensor. The power plant stacks height and diameter were 40 m and 1.5 m, respectively. The nitrous oxide stack was 22 m tall and 1.2 m in diameter. The measured plume temperature at the power plant stack exit was  $170.6 \pm 1.2$  °C and the nitrous oxide plume temperature was estimated to be  $218 \pm 14$  °C.<sup>3</sup> With these stack dimensions and distances from the stack, the sensor field of view was filled with the plume emanating from the target stacks.

Two 12 by 12 in. extended blackbody sources (Graseby Infrared Inc., Orlando, FL; Model 140/201, Serial Numbers 455 and 505) were used to evaluate the sensor responsivity and self emission. These blackbodies were located near the sensor and filled the field of view of the telescope fore optic. These blackbodies have a temperature accuracy of  $\pm 1.5$  °C and a surface emissivity of  $0.95 \pm 2\%$ . Blackbody temperatures were set in the linear response region of the FT-IR spectrometer.

During the course of the spectral measurements, the FT-IR spectrometer's internal temperature was monitored with a thermistor thermometer probe (Cole Palmer, Venon Hills, IL; Model 7002H). This probe was located near the spectrometer's beamsplitter, which provided the largest temperature dependent contribution to the sensor's responsivity and self emission.

Interferogram data were acquired with MIDCOLV software package<sup>4</sup> on an IBM/PC compatible computer (MicroAlliance Inc., Vista, CA) with a Pentium 166 Megahertz processor operating under MS-DOS (Microsoft Inc., Redmond, WA). Either 1024-point or 8192-point interferograms were sampled at every eighth zero-crossing of the helium-neon reference laser of the FT-IR spectrometer. The maximum digitized wavenumber was 1975 cm<sup>-1</sup> and the transformed spectra had a nominal point spacing of either 4 cm<sup>-1</sup> or 0.5 cm<sup>-1</sup> that was dependent upon the number of interferogram points sampled. Fourier transformation (FT) of an average of 100 (coadded) interferograms into an average single-beam spectrum was performed with the PCIDA package.<sup>5</sup> The fast FT of the interferogram data included triangular apodization and a Mertz phase correction with a phase array of 128 points. The single-beam spectra were processed with an ARRAY BASIC program written in the Spectra Cal environment (Galactic Industries Corp., Salem, NH).<sup>6</sup>

### 3. INFRARED RADIOMETRIC EVALUATIONS

#### 3.1 Radiometric Equations.

The radiative transfer at a specific wavelength through a homogenous atmosphere and target vapor plume is described by equation 1.<sup>7</sup>

$$L_X = \tau_A \tau_P * L_{BKG} + (1 - \tau_A \tau_P) * L_P \quad (1)$$

The  $L_X$ ,  $L_{BKG}$ , and  $L_P$  represent the apparent (i.e., scene), background, and plume blackbody radiances, respectively. The  $\tau_A$  and  $\tau_P$  denote the atmospheric and plume transmittances, respectively. When  $\tau_A$  is approximately one, then equation 1 reduces to equation 2.

$$L_X = \tau_P * L_{BKG} + (1 - \tau_P) * L_P \quad (2)$$

The apparent radiance along with evaluation of spectrometer linearity, responsivity, and self emission permits the evaluation of  $\tau_P$  or  $-\log(\tau_P)$ . The importance of assessing the three terms becomes obvious when modeling the behavior of the FT-IR spectrometer at a specific wavelength with equation 3.<sup>7,8</sup>

$$S_1 = \Re * (L_1 + L_E) \quad (3a)$$

$$S_2 = \Re * (L_2 + L_E) \quad (3b)$$

The  $\Re$  and  $L_E$  denote responsivity and self emission, respectively. The  $S$  and  $L$  with two numerical subscripts indicate two different input radiances and two correspondingly different output single-beam spectral responses. This model assumes the sensor exhibits a linear response to an input radiance level.<sup>9</sup> In addition, the model also presumes that the sensor achieves thermal stability (i.e., constant self emission and responsivity) during the time associated with making spectral measurements.<sup>10</sup> Figure 2 illustrates the region of sensor linearity for unit 258 at 39.1 °C using wavenumbers of (a) 1130.0 cm<sup>-1</sup> and (b) 1168.6 cm<sup>-1</sup>. This figure displays a plot of spectrometer single-beam response versus blackbody radiance. The radiance is generated with blackbody temperatures ranging from 40 to 170 °C in increments of 10 °C. The spectrometer exhibits linearity only over the 40 to 80 °C temperature range as shown with the solid least squares lines in Figures 2a and 2b. Therefore, only blackbody temperatures within this range should be used to compute a responsivity,  $\Re$ . The responsivity at 1130.0 cm<sup>-1</sup> and 1168.6 cm<sup>-1</sup> are the least squares slopes of Figures 2a and 2b and the slope values are  $(2.858 \pm 0.072) * 10^9$  and  $(2.909 \pm 0.073) * 10^9$ , respectively.

The determination of sensor responsivity with a controlled blackbody radiance input allows calculation of the sensor self emission by rearranging equation 3 into equation 4.

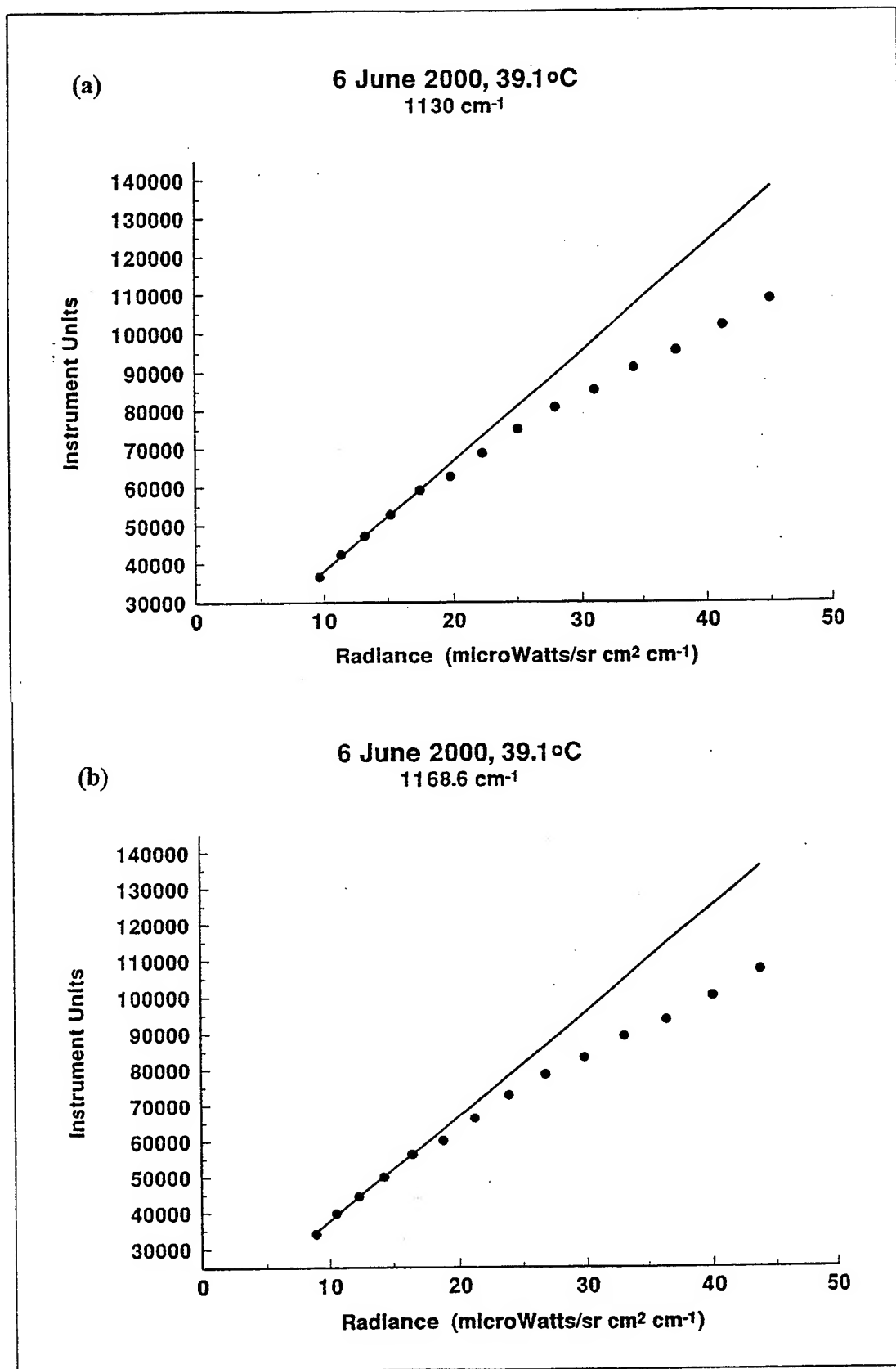


Figure 2. FT-IR spectrometer linearity at (a) 1130.0 cm<sup>-1</sup> and (b) 1168.6 cm<sup>-1</sup>

$$L_E = S_1/\mathfrak{R} - L_1 \quad (4a)$$

$$L_E = S_2/\mathfrak{R} - L_2 \quad (4b)$$

Thus, the same set of spectral data permits the evaluation of sensor responsivity and self emission (i.e., gain and offset) terms at a specific wavenumber. The self emission terms for Figures 2a and 2b are 3.89 and 3.37, respectively, in units of microwatts/sr cm<sup>2</sup> cm<sup>-1</sup>. Figures 3 and 4 delineate the responsivity and self-emission terms, respectively, as a function of internal spectrometer temperature for the blackbody radiance measurements made during the two week time frame of stack evaluations. The solid line in each figure is a linear least squares fit of either responsivity or self emission. The responsivity and self emission as a function of temperature yields linear least-squares slopes of  $(-0.99 \pm 0.34) \times 10^{-2}$  and  $(2.5 \pm 1.6) \times 10^{-2}$ , respectively, for 1130.0 cm<sup>-1</sup> as well as  $(-0.94 \pm 0.37) \times 10^{-2}$  and  $(2.1 \pm 1.5) \times 10^{-2}$ , respectively, for 1168.6 cm<sup>-1</sup>. The scatter in these plots clearly indicates the importance in evaluating the responsivity/self-emission terms in the same time frame and under the same conditions as those of the associated spectral plume measurements.<sup>10</sup>

### 3.2 Transmittance.

Determining the plume transmittance relies on using the sensor responsivity/emission and equation 3. Using a predicted response for a blackbody background equal to that of the stack plume reduces the number of single-beam spectra needed for calculation of transmittance. When the background and target plume temperatures are equal the scene radiance of equations 1 and 2 becomes just the blackbody background radiance. For this study, we use equation 2, because calculation of the atmospheric transmission appears to be close to 100% for the conditions encountered in this particular open-air monitoring application. Calculation results using inputs of stack plume distance, 50% relative humidity, urban environment, and temperature of 80 °F to MODTRAN version 3<sup>11</sup> are shown in Figure 5. Equation 2 is written for the conditions of (a)  $L_{BKG} \neq L_P$  and (b)  $L_{BKG} = L_P = L_{BB}$ . Subsequently, the difference between these two resultant equations is taken and is solved for  $\tau_P$  to produce equation 5.<sup>1, 7, 12</sup>

$$\tau_P = (L_X - L_{BB}) / (L_{BKG} - L_{BB}) \quad (5)$$

Only the scene radiances generated on/off the stack (i.e., plume/background) and the blackbody radiance at the target plume temperature are needed to calculate plume transmittance. Using equation 3, the transmittance in equation 5 is rewritten in terms of single-beam spectral units.

$$\tau_P = (S_X - S_{BB}) / (S_{BKG} - S_{BB}) \quad (6)$$

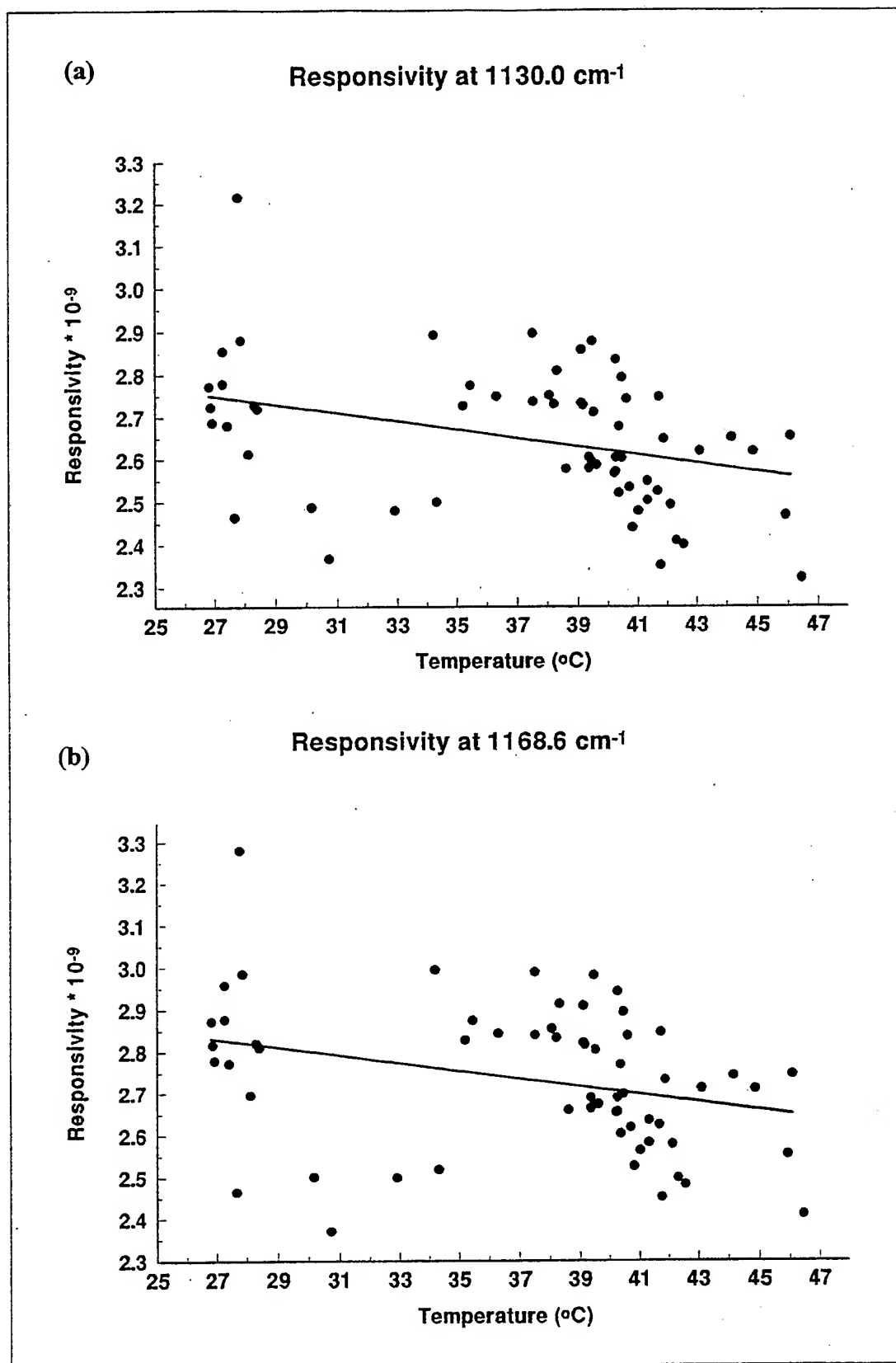


Figure 3. Temperature dependence of sensor responsivity at (a) 1130.0  $\text{cm}^{-1}$  and (b) 1168.6  $\text{cm}^{-1}$

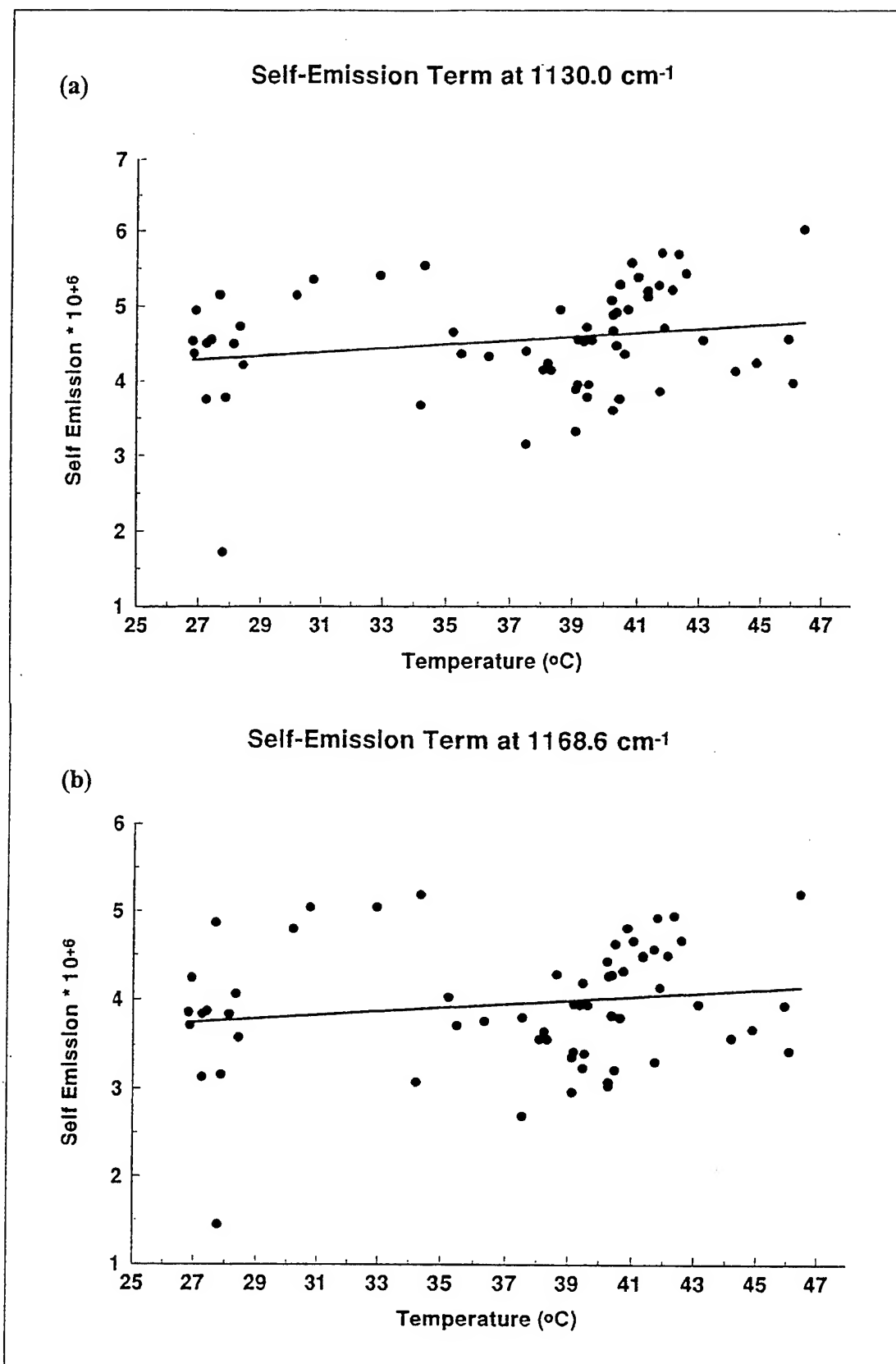


Figure 4. Temperature dependence of sensor self emission at (a)  $1130.0\text{ cm}^{-1}$  and (b)  $1168.6\text{ cm}^{-1}$



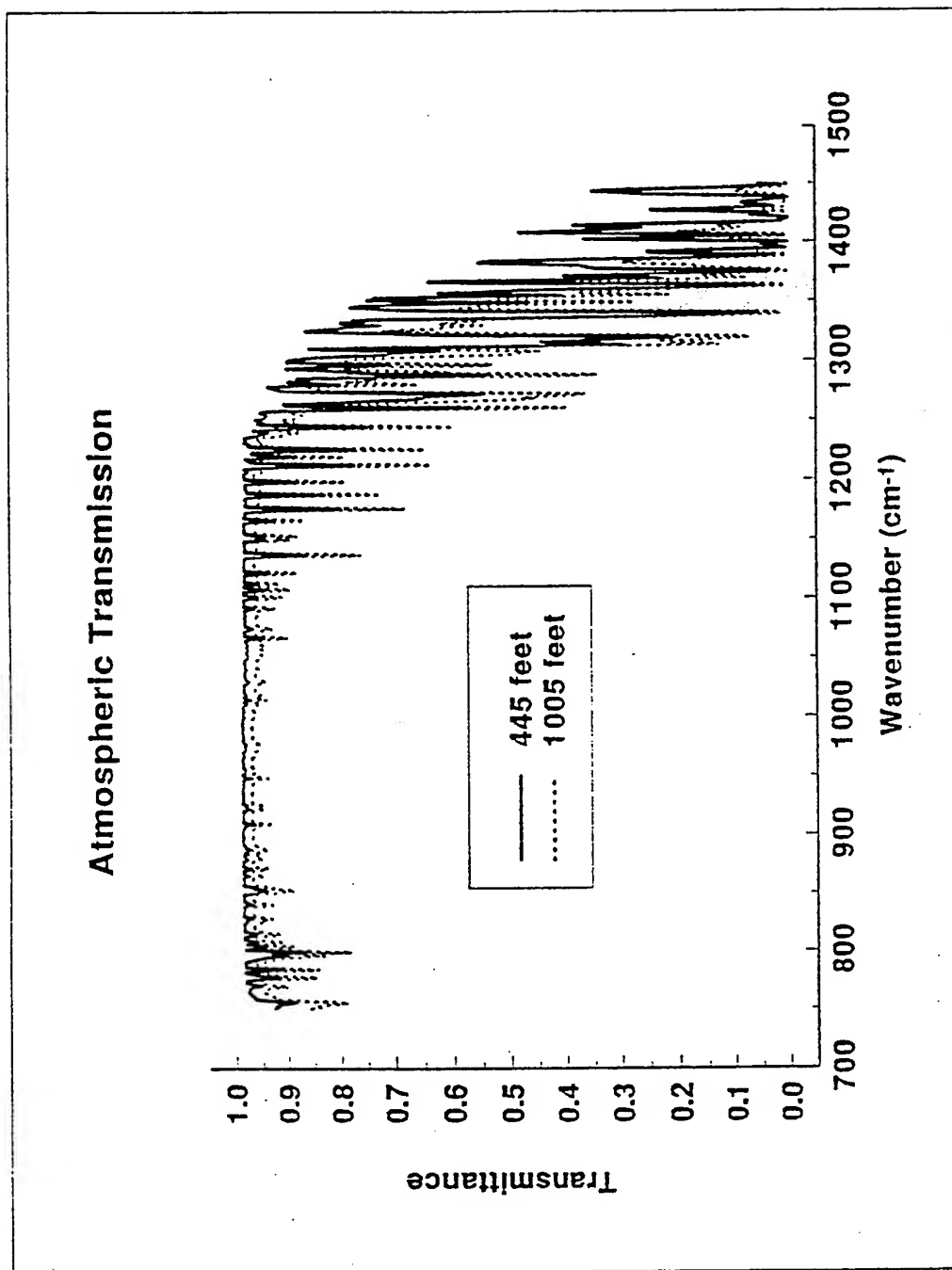


Figure 5. Atmospheric transmittance at distances of 445 and 1005 feet from target plume

In equation 6, the differences remove the self emission or offset terms, while the ratio eliminates the effect of responsivity or gain terms.

### 3.3 Absorbance.

The transmittance is converted to absorbance, A, with equation 7.

$$A = -\log(\tau_P) \quad (7)$$

Equation 8 also represents the absorbance.

$$A = abc \quad (8)$$

Absorptivity, a, is represented in units of  $\text{m}^2/\text{milligrams}$ ; pathlength, b, has units of meters; and concentration, c, possesses units of  $\text{milligrams}/\text{m}^3$ .<sup>13</sup> Often the concentration pathlength product term (i.e., bc) is also expressed in units of  $\text{ppm}\cdot\text{m}$ .<sup>14</sup> The use of a spectral database with known conditions of concentration and cell pathlength allows an assessment of the bc term. Estimating the target plume pathlength, therefore permits a prediction for the target analyte concentration.

### 3.4 Absorbance Computation.

The absorbance results reported in this investigation are computed with the ARRAY BASIC program RLTA.ab. A flowchart of this program is provided in Figure 6a. This program requires input of blackbody radiances as a function of wavenumber associated with input calibration blackbody and stack plume temperatures. These blackbody radiances are generated with the ARRAY BASIC program BKBODY.ab which is flowcharted in Figure 6b. Listings of each of these programs are located in Appendix A.

Figures 7 through 9 furnish a pictorial explanation of the computations performed by the RLTA.ab and BKBODY.ab programs. Figure 7a is a graph of the input single-beam spectra that are used to calculate the FT-IR spectrometer responsivity and self emission. One of these spectra is input to the program BKBODY.ab to generate the blackbody radiances shown in Figure 7b. Use of a single-beam spectra is necessary to allow calculation at the appropriate spectral wavenumber locations. The first two single-beam and blackbody spectra inputs into RLTA.ab are shown in Figures 7a and 7b. These spectra permit the next two computations in RLTA.ab or responsivity and self emission. The resultant responsivity and self emission are shown in Figure 8a. Now using the linear model described by equation 3, a single-beam blackbody spectrum associated with the stack plume is calculated after input of the plume temperature. The only remaining inputs needed for computation of transmittance are the single-beam spectra that are

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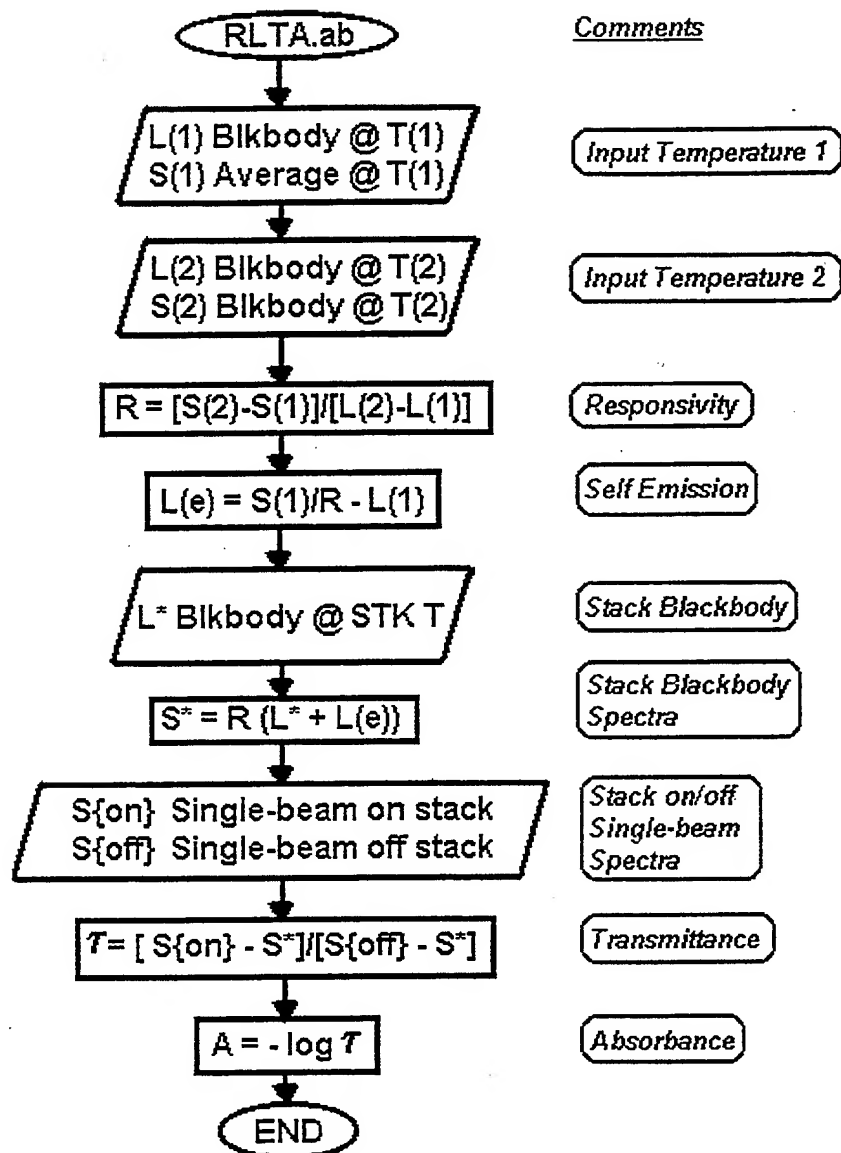


Figure 6a. Program flowchart for calculating transmittance and absorbance

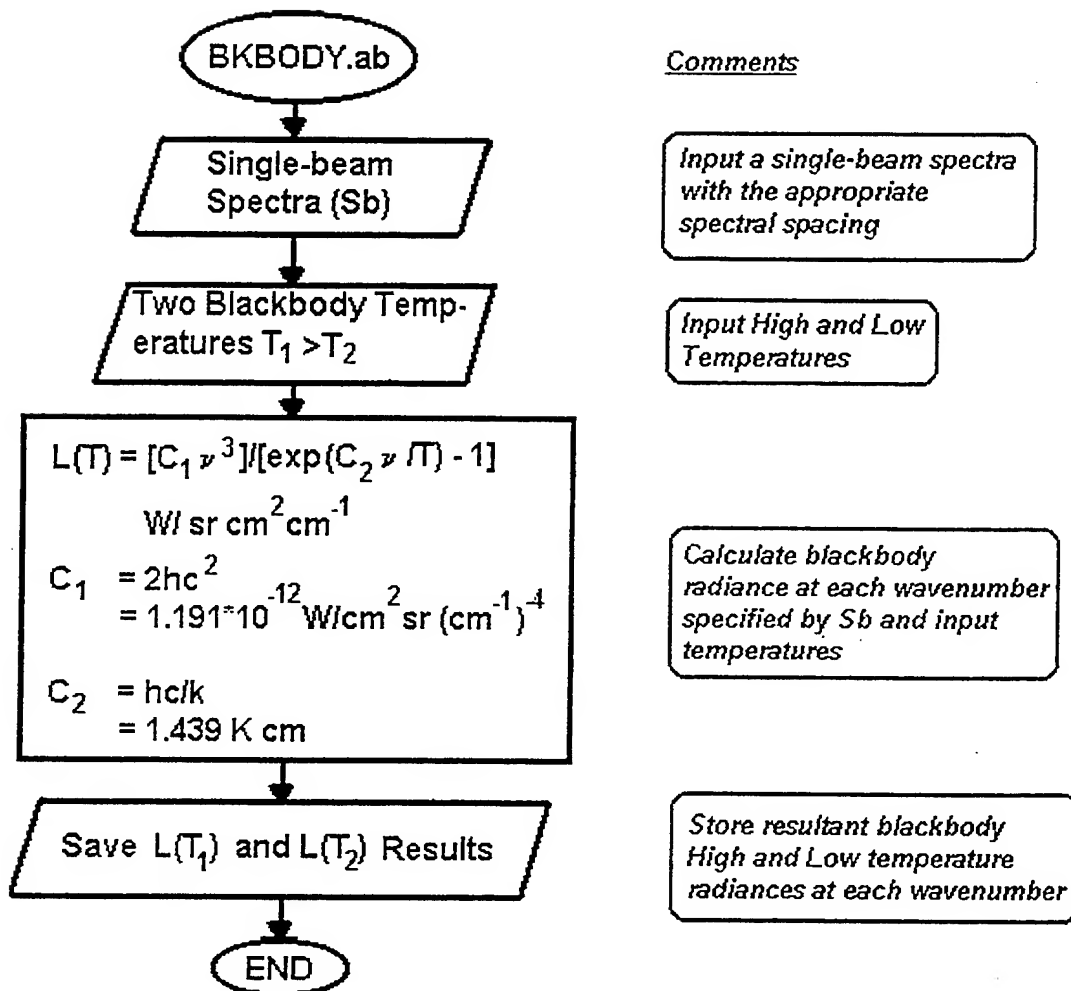


Figure 6b. Program flowchart for calculating blackbody radiances

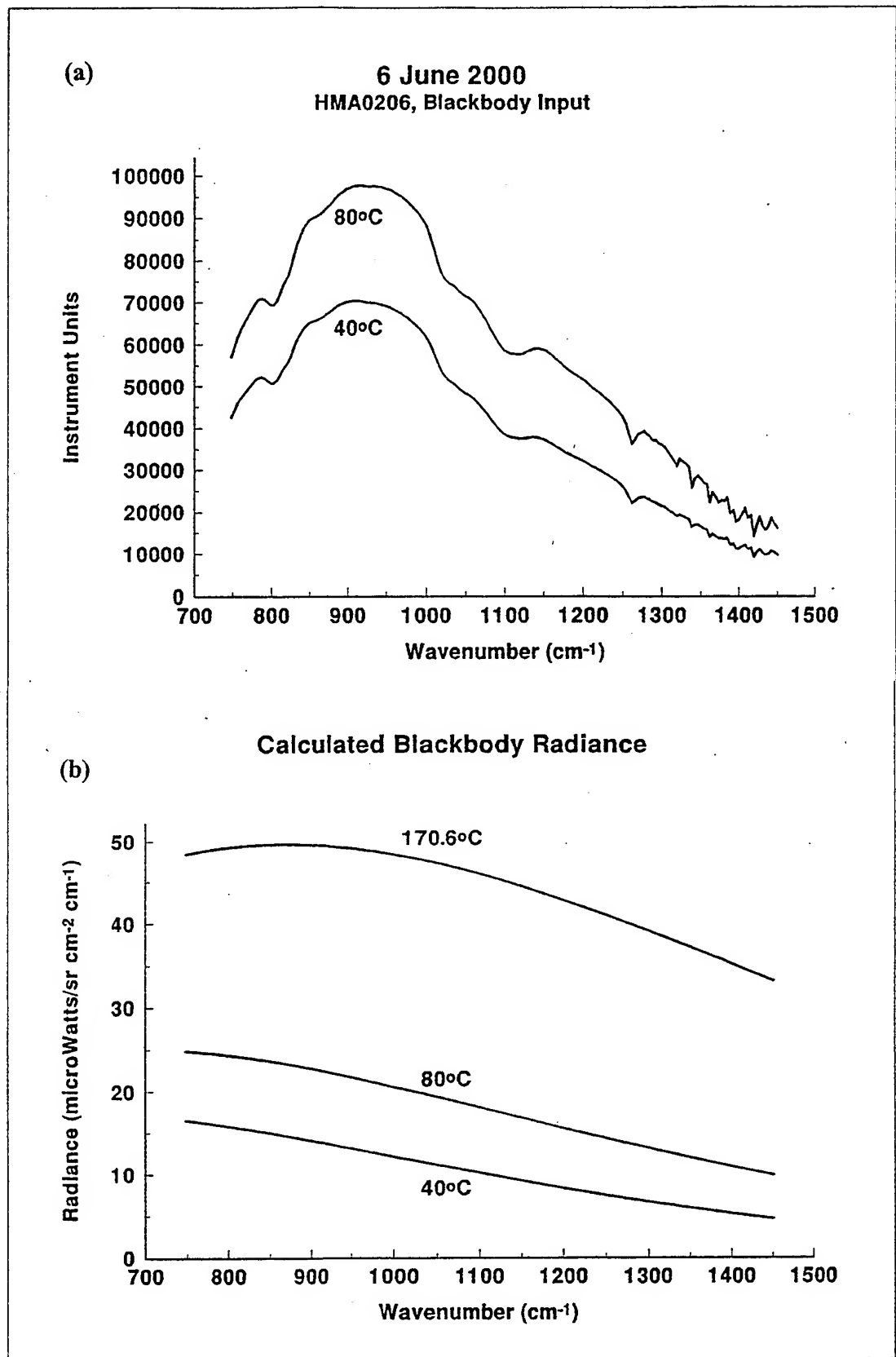
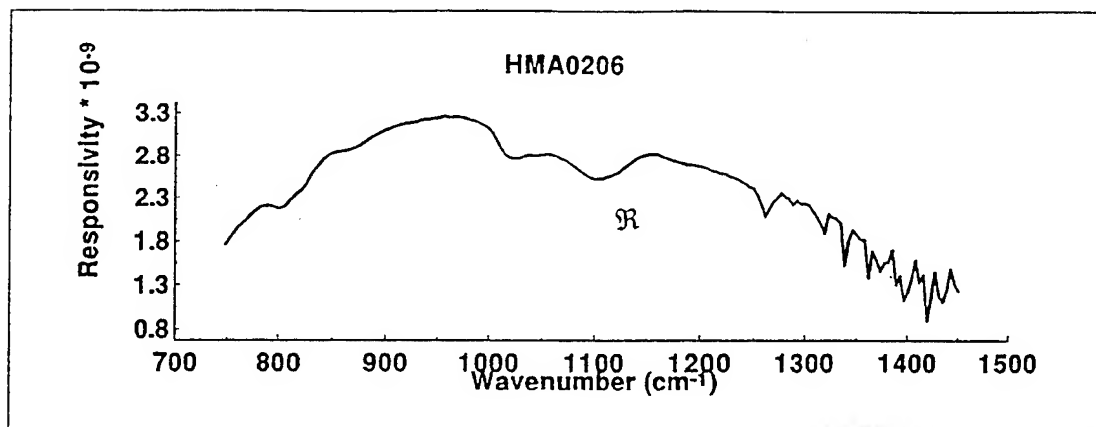


Figure 7. Calculation of responsivity/self-emission terms requires (a) single-beam response to (b) blackbody radiance level

(a)



(b)

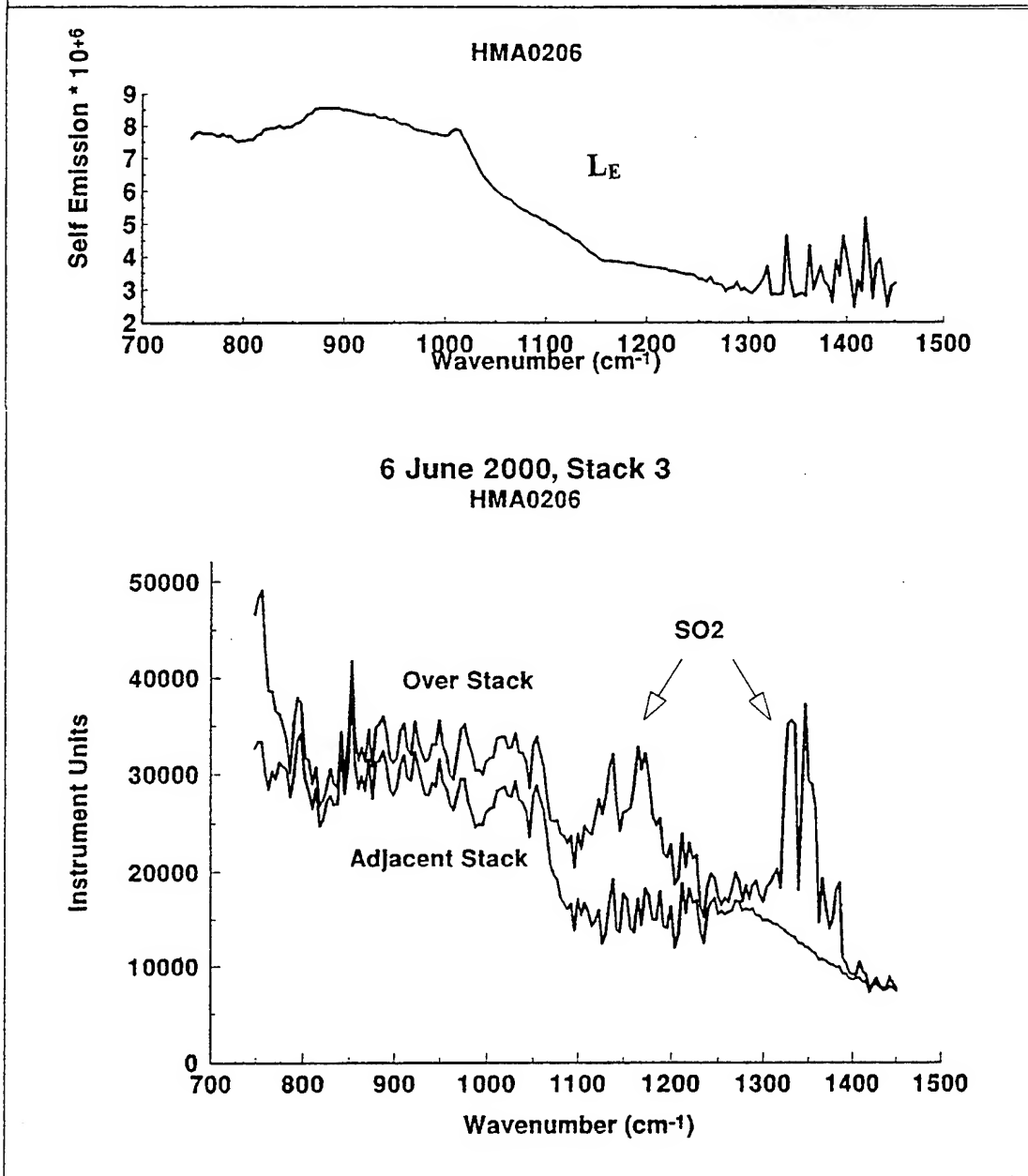


Figure 8. RLTA.ab program (a) computed  $\mathcal{R}/L_E$  and (b) ON/OFF stack plume single-beam spectral inputs

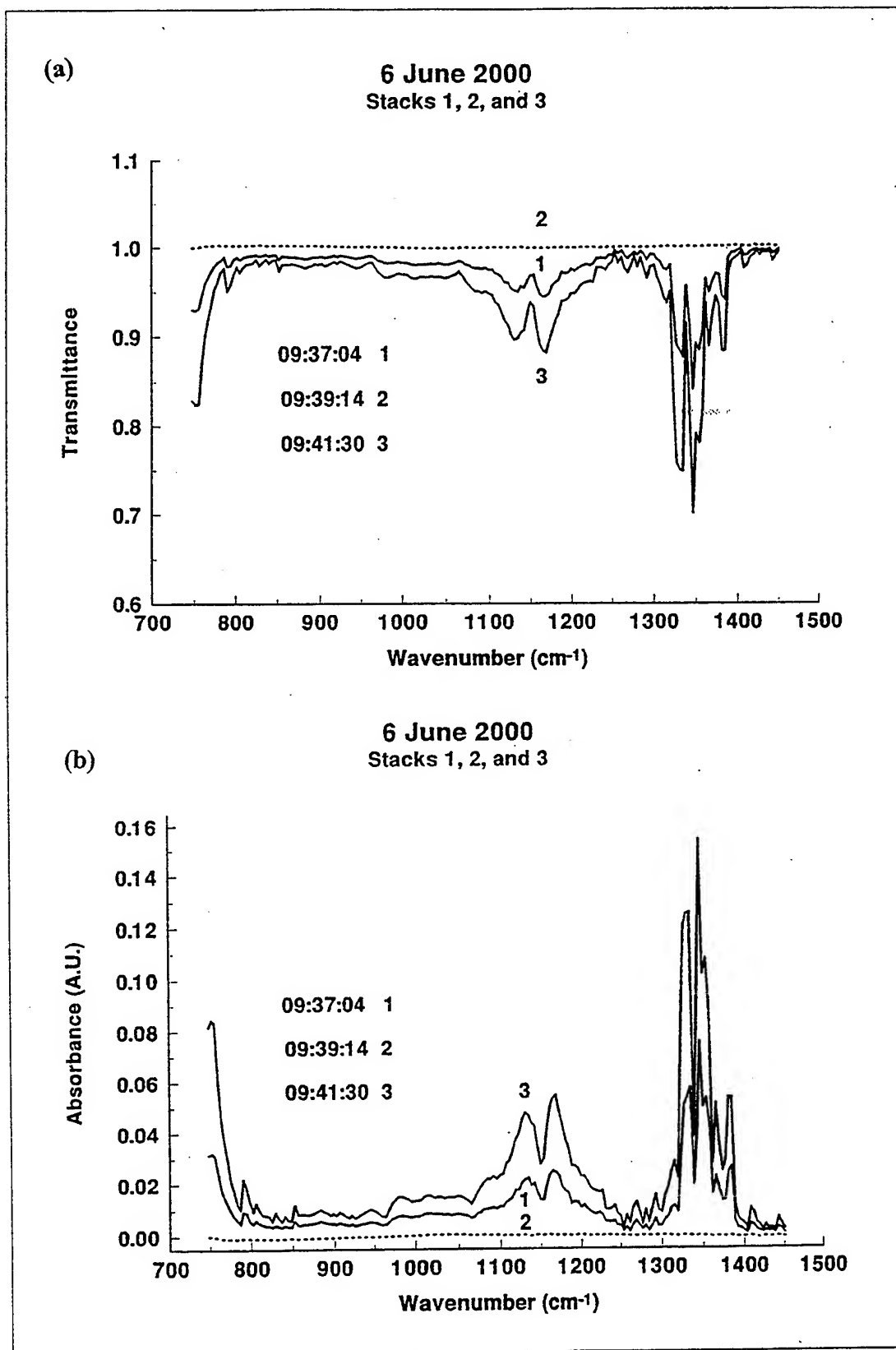


Figure 9. Resultant (a) transmittance and (b) absorbance spectra computed with program RLTA.ab for stack plumes #1, #2, and #3 on 6 June 2000 at 4 cm<sup>-1</sup>

taken with the spectrometer field of view either over (i.e., ON) or adjacent to (i.e., OFF) the stack plume. These ON and OFF stack single-beam spectra are plotted in Figure 8b for the power plant stack #3. These two single-beam spectra in combination with the stack blackbody single-beam spectra at 170.6 °C are used to compute the transmittance for all the power plant stack plumes. Stacks #1 and #3 are shown to be operational during the time frame of these measurements and stack #2 is off. Thus, the measurement from stack #2 provides a 100% transmission baseline. The final step in program RLTA.ab converts the transmittance values shown in Figure 9a into the absorbance values of Figure 9b. Clearly, the amounts of sulfur dioxide emitted as indicated by the band<sup>15</sup> located near 1151 cm<sup>-1</sup> differs between the two stacks for this particular measurement. It is also obvious from these spectral measurements that sulfur dioxide band located near 1361 cm<sup>-1</sup> becomes significantly attenuated by the intervening atmospheric water vapor between plume and sensor as well as by water vapor present in the effluent plume due to the coal combustion process.

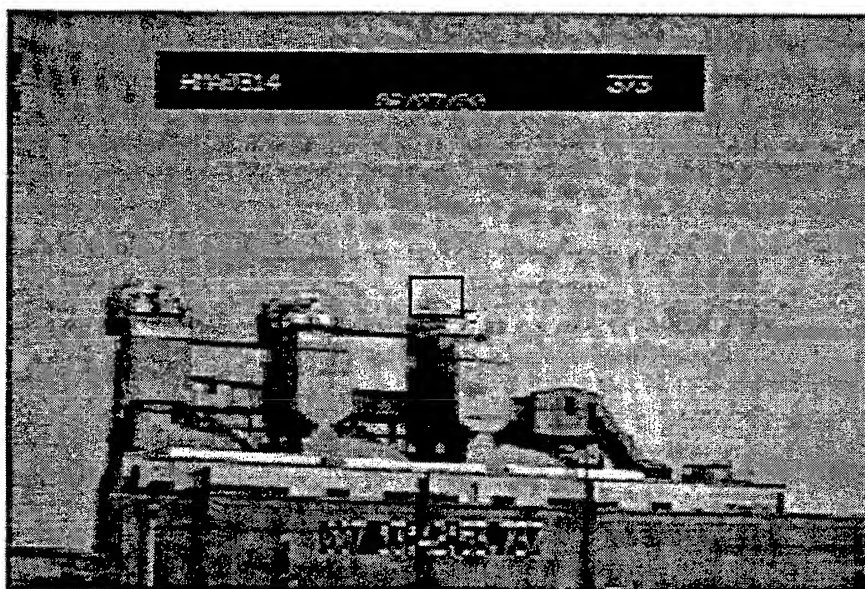
#### 4. COAL BURNING POWER PLANT STACKS

There are three stacks associated with the coal burning power plant. These stacks are shown in Figure 10 as viewed with the boresighted visible camera of the FT-IR spectrometer. The stacks are identified by numbering from right to left. The sensor field of view is located over stack #1 in Figure 10.

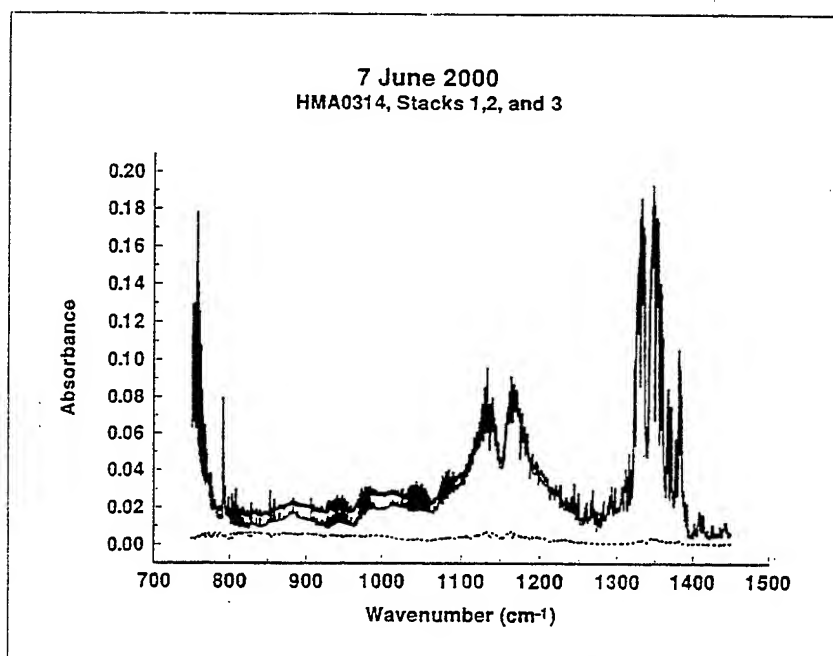
During the course of this study stack #2 was not operating. Measurements of sulfur dioxide were made over a five day period (i.e., 5-8 June 2000 and 27 June 2000). Absorbance spectra for stacks #1 and #3 were nearly identical on 7 June 2000 as shown in the Figure 11 overlay of spectra. The stack #2 absorbance spectra, which was not operational, provided the dotted baseline. There were some residual sulfur dioxide spectral features at both the 1151 cm<sup>-1</sup> and 1361 cm<sup>-1</sup> bands. This residual in the stack #2 spectra was undoubtedly the result of cross wind contamination from either stack #1 or #3 depending on the prevailing wind conditions at the time.

Typical variability in transmittance and absorbance evaluations for 4 cm<sup>-1</sup> spectral measurements are illustrated in Figure 12. The abscissa in these plots of Figure 12 are in units of seconds and indicates the time measured from initially starting the FT-IR spectrometer for that day. Transmittance and absorbance tabulations with the appropriate time of day stamp and associated plots are provided in Appendix B for all evaluations over the five day data collection period. Figure 12a furnishes the transmittance values for 7 June 2000, while Figure 12b supplies the absorbance values over the same time period. The solid line in each graph denotes the average of the daily measurements and the dotted lines reflect the associated best estimate of the standard deviation (BESD) in the assessments. The average and BESD for the 1130.0 cm<sup>-1</sup> band of stack #3 is  $(8.43 \pm 1.18) \times 10^{-2}$  for absorbance and  $0.824 \pm 0.022$  for transmittance. The values for other days





**Figure 10.** Boresighted visible camera image of coal burning power plant stacks



**Figure 11.** Overlay of absorbance spectra for stacks #1, #2, and #3 on 7 June 2000 at 0.5 cm<sup>-1</sup>

including the  $1168.6\text{ cm}^{-1}$  band are summarized in Table 1 along with the number of measurements used in the evaluation. The largest variations of about 50% in absorbance and transmittance are seen to occur on 6 June 2000. The smallest variation for stack #1 of about 8% is found on 7 June 2000 and for stack #3 of around 9% is seen on 8 June 2000.

Table 1. Sulfur dioxide  $4\text{ cm}^{-1}$  Absorbance and Transmittance Summary

$1130.0\text{ cm}^{-1}$			$1168.6\text{ cm}^{-1}$		
Stack #1	$A \cdot 10^2$	$\tau$	$A \cdot 10^2$	$\tau$	No. pts.
6JUN00	$4.99 \pm 2.20$	$0.893 \pm 0.045$	$5.80 \pm 2.56$	$0.876 \pm 0.051$	13
7JUN00	$7.06 \pm 0.54$	$0.850 \pm 0.010$	$7.93 \pm 0.61$	$0.843 \pm 0.012$	8
8JUN00	$6.99 \pm 0.59$	$0.851 \pm 0.012$	$7.60 \pm 0.63$	$0.839 \pm 0.012$	9
Stack #3	$A \cdot 10^2$	$\tau$	$A \cdot 10^2$	$\tau$	No. pts.
5JUN00	$3.89 \pm 0.73$	$0.914 \pm 0.015$	$4.46 \pm 0.77$	$0.902 \pm 0.015$	17
6JUN00	$5.04 \pm 3.40$	$0.882 \pm 0.062$	$6.21 \pm 3.24$	$0.869 \pm 0.063$	15
7JUN00	$8.43 \pm 1.18$	$0.824 \pm 0.022$	$9.46 \pm 1.24$	$0.804 \pm 0.023$	8
8JUN00	$7.50 \pm 0.72$	$0.841 \pm 0.014$	$8.39 \pm 0.73$	$0.824 \pm 0.014$	7

An estimate of the concentration pathlength product is made by using Table 1 and the Infrared Analysis database spectra of  $125\text{ ppm}\cdot\text{m}$ .<sup>14</sup> This is an estimate because the database absorbance spectrum at  $125\text{ ppm}\cdot\text{m}$  is not acquired at the same temperature as that of the plume emitted by the power plant stacks. To date only very limited quantitative gas cell measurements have been made by anyone as a function of analyte temperature. Therefore, as future quantitative measurements become readily available a revision of these calculations may be in order. This is the reason that the single-beam blackbody and stack ON/OFF spectra are supplied in Appendix C for the assessment made closest to the average values reported in Tables 1 and 3. In addition, the calculated absorbance spectra are also supplied in Appendix C. Table 2 provides the estimated concentration pathlength product as well as the concentration assuming the plume has an optical pathlength of  $1.5\text{ m}$  (i.e., stack diameter). The concentration pathlength product for each wavelength should agree. The fact, that they differ slightly, indicates the need for a better temperature dependent analyte spectra. However, these values are comparable and each falls within the error bars of the other. So the best estimate from the available data is probably the average of the two values in Table 2.

The stack absorbance and transmittance assessments acquired at  $0.5\text{ cm}^{-1}$  spectral spacing are tabulated in Table 3. The associated estimated concentrations are provided in Table 4. Only on 27 June 2000 have a statistically significant number of measurements been made for  $0.5\text{ cm}^{-1}$ . The data variation of absorbance and transmittance for this data is about 20% in the transmittance and 15% in the absorbance. The same 15% variation in the estimated concentration results is seen in the last row of Table 4. The concentrations for the two bands at higher resolution in Table 4 show the same trends as found in the lower resolution Table 2 results.

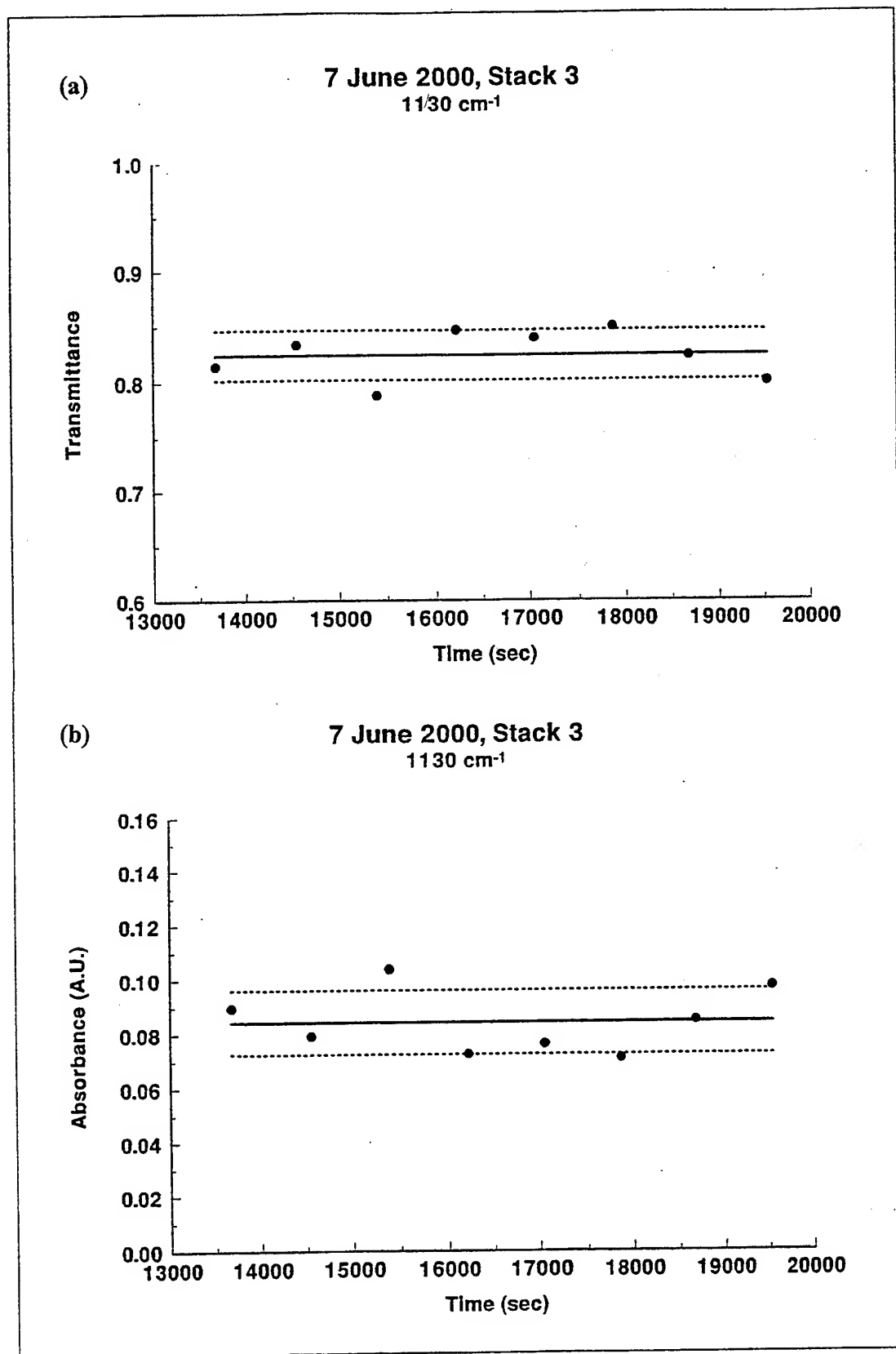
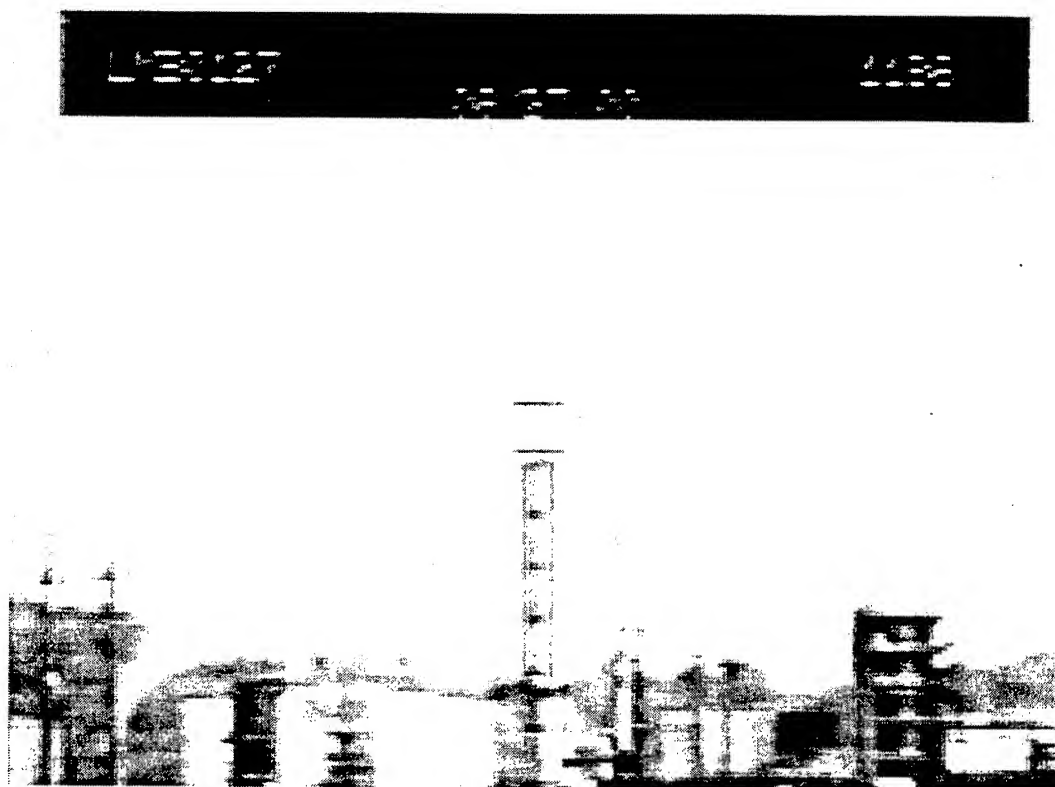


Figure 12. Stack #3 (a) transmittance and (b) absorbance evaluation results on 7 June 2000 at 1130.0  $\text{cm}^{-1}$  (see Table 1)



**Figure 13.    Boresighted visible camera view of nitrous oxide stack**

Table 2. Estimated Sulfur dioxide Concentrations at  $4\text{ cm}^{-1}$

$1130.0\text{ cm}^{-1}$			$1168.6\text{ cm}^{-1}$		
Stack #1	bc (ppm-m)	c (ppm)	bc (ppm-m)	c (ppm)	No. pts.
6JUN00	$961 \pm 424$	$641 \pm 283$	$923 \pm 407$	$615 \pm 271$	13
7JUN00	$1360 \pm 104$	$907 \pm 69$	$1262 \pm 97$	$841 \pm 65$	8
8JUN00	$1346 \pm 114$	$897 \pm 76$	$1209 \pm 100$	$806 \pm 67$	9
Stack #3	bc (ppm-m)	c (ppm)	bc (ppm-m)	c (ppm)	No. pts.
5JUN00	$749 \pm 141$	$499 \pm 94$	$710 \pm 123$	$473 \pm 83$	17
6JUN00	$971 \pm 655$	$647 \pm 437$	$988 \pm 515$	$659 \pm 343$	15
7JUN00	$1624 \pm 148$	$1083 \pm 99$	$1505 \pm 197$	$1003 \pm 131$	8
8JUN00	$1444 \pm 139$	$963 \pm 93$	$1335 \pm 116$	$890 \pm 77$	7

Table 3. Sulfur dioxide  $0.5\text{ cm}^{-1}$  Absorbance and Transmittance Summary

$1132.4\text{ cm}^{-1}$			$1163.3\text{ cm}^{-1}$		
Stack #1	$A \cdot 10^2$	$\tau$	$A \cdot 10^2$	$\tau$	No. pts.
6JUN00	5.19	0.887	4.89	0.893	2
7JUN00	9.52	0.803	9.07	0.811	1
Stack #3	$A \cdot 10^2$	$\tau$	$A \cdot 10^2$	$\tau$	No. pts.
5JUN00	5.22	0.887	4.94	0.892	1
6JUN00	4.38	0.905	4.16	0.909	2
7JUN00	9.39	0.806	8.91	0.814	1
27JUN00	$6.05 \pm 0.94$	$0.870 \pm 0.018$	$5.82 \pm 0.92$	$0.874 \pm 0.018$	13

Table 4. Estimated Sulfur Dioxide Concentration at  $0.5\text{ cm}^{-1}$

$1132.4\text{ cm}^{-1}$			$1163.3\text{ cm}^{-1}$		
Stack #1	bc (ppm-m)	c (ppm)	bc (ppm-m)	c (ppm)	No. pts.
6JUN00	577	371	592	395	2
7JUN00	1057	705	1098	732	1
Stack #3	bc (ppm-m)	c (ppm)	bc (ppm-m)	c (ppm)	No. pts.
5JUN00	580	387	580	387	1
6JUN00	486	324	504	336	2
7JUN00	1043	695	1078	719	1
27JUN00	$672 \pm 104$	$448 \pm 69$	$704 \pm 111$	$469 \pm 74$	13

In summary, the largest variation in the sulfur dioxide stack emissions from the power plant occurred on 6 June 2000. The smallest variation for stack #1 was on 7 June 2000 and for stack #3 was on 8 June 2000. The large approximately 50% variations could be caused by significant fluctuation in meteorological wind conditions.

## 5. ACID PLANT NITROUS OXIDE STACK

The nitrous oxide stack associated with the acid plant is shown in Figure 13. The FT-IR spectrometer field of view is indicated over (i.e., ON) the stack by a box while the field of view by moving the box to the left of the stack (i.e., OFF) provided the background. The stack measurements encompass the days of 26 and 27 June 2000. For 26 June 2000, the results of 31 measurements are shown in Table 5 with 30 data evaluations for about  $4\text{ cm}^{-1}$  spectral point spacing and 1 evaluation at about  $0.5\text{ cm}^{-1}$  spectral point spacing. For 27 June 2000, the results of 22 measurements are listed in Table 5 using only the spectral spacing of  $0.5\text{ cm}^{-1}$ . The tabulated absorbance and transmittance values for this table are provided in Appendix D. For the first and last data rows in Table 5, the absorbance spectra closest to the average are plotted in Figures 14a and 14b, respectively.

Table 5. Nitrous Oxide Concentration Estimates

$4\text{ cm}^{-1}$	$1145.5\text{ cm}^{-1}$			$1184.0\text{ cm}^{-1}$			No. pts.
	$A \cdot 10^3$ (A.U.)	bc (ppm-m)	c (ppm)	$A \cdot 10^3$ (A.U.)	bc (ppm-m)	c (ppm)	
26JUN00	$2.69 \pm 1.15$	$301 \pm 129$	$251 \pm 107$	$3.09 \pm 1.27$	$284 \pm 116$	$237 \pm 97$	30
$0.5\text{ cm}^{-1}$	$1146.9\text{ cm}^{-1}$			$1179.2\text{ cm}^{-1}$			
	$A \cdot 10^3$ (A.U.)	bc (ppm-m)	c (ppm)	$A \cdot 10^3$ (A.U.)	bc (ppm-m)	c (ppm)	
26JUN00	4.19	320	266	3.77	270	225	1
27JUN00	$4.88 \pm 1.33$	$372 \pm 102$	$310 \pm 85$	$4.68 \pm 0.99$	$336 \pm 71$	$280 \pm 59$	22

The smaller feature of the Figure 14 absorbance spectra in the range of  $1120\text{ cm}^{-1}$  to  $1210\text{ cm}^{-1}$  is employed, since it is minimally impacted by the water vapor of the intervening atmosphere of about 1000 feet between the target plume and sensor. Figure 15 provides an expanded view of the this smaller spectral band that is employed. The dotted trace represents the  $4\text{ cm}^{-1}$  spectral point spacing and the solid line illustrates the  $0.5\text{ cm}^{-1}$  spectral point spacing. The signal to noise of the higher resolution plot is approximately 40, while the lower resolution plot is about 20. The noise values are calculated by the process of successive differences over the spectral region from  $1075\text{ cm}^{-1}$  to  $1110\text{ cm}^{-1}$ .<sup>16</sup> The method of successive differences is used, because it is insensitive to both baseline tilt and curvature. It seems counterintuitive that the signal-to-noise values calculated for the higher resolution spectra are higher than the lower resolution spectra. However, keep in mind the actual conditions being viewed by the sensor between these two days may differ.

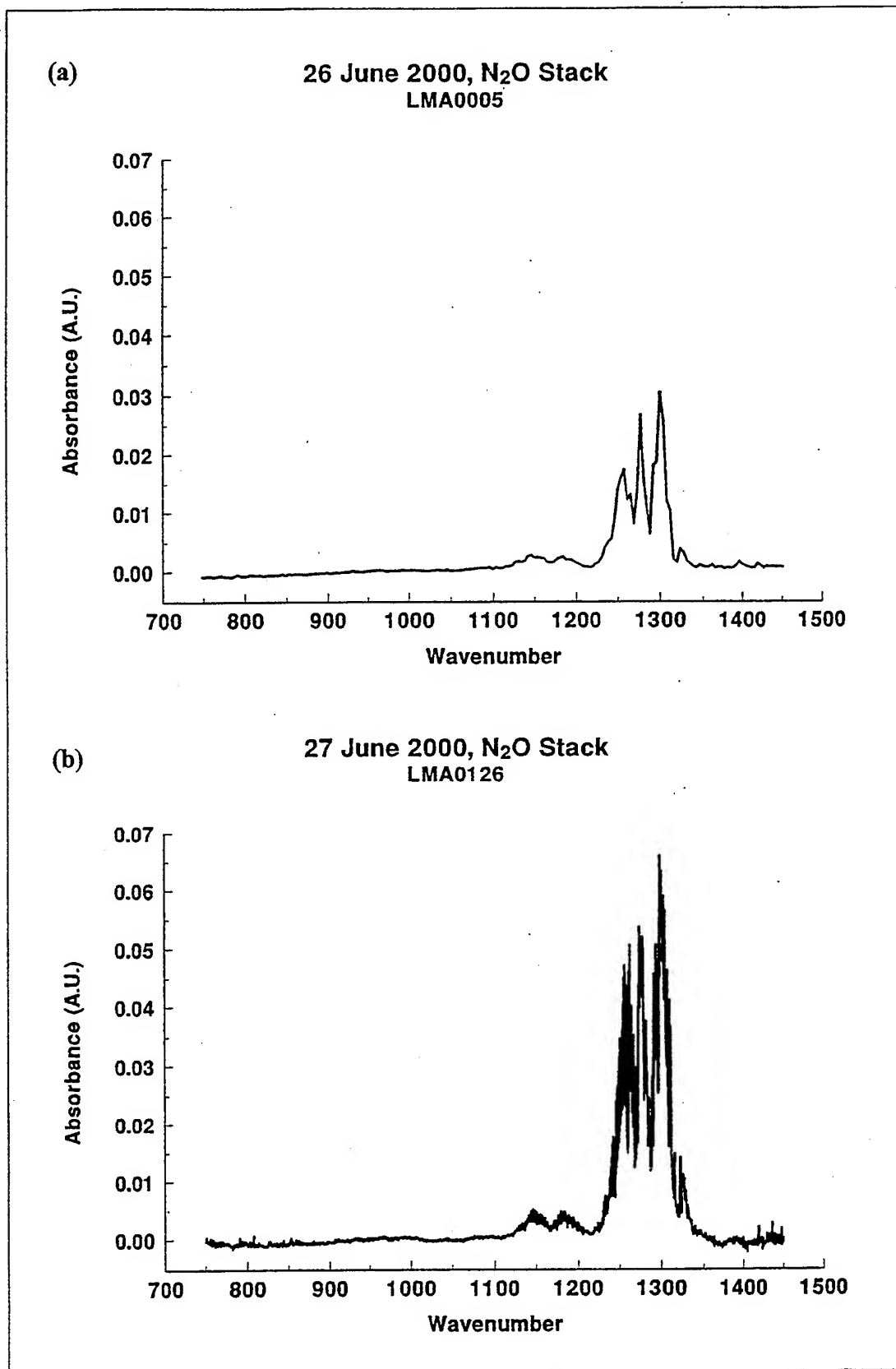


Figure 14. Nitrous oxide absorbance spectra at (a) 4 cm<sup>-1</sup> and (b) 0.5 cm<sup>-1</sup>

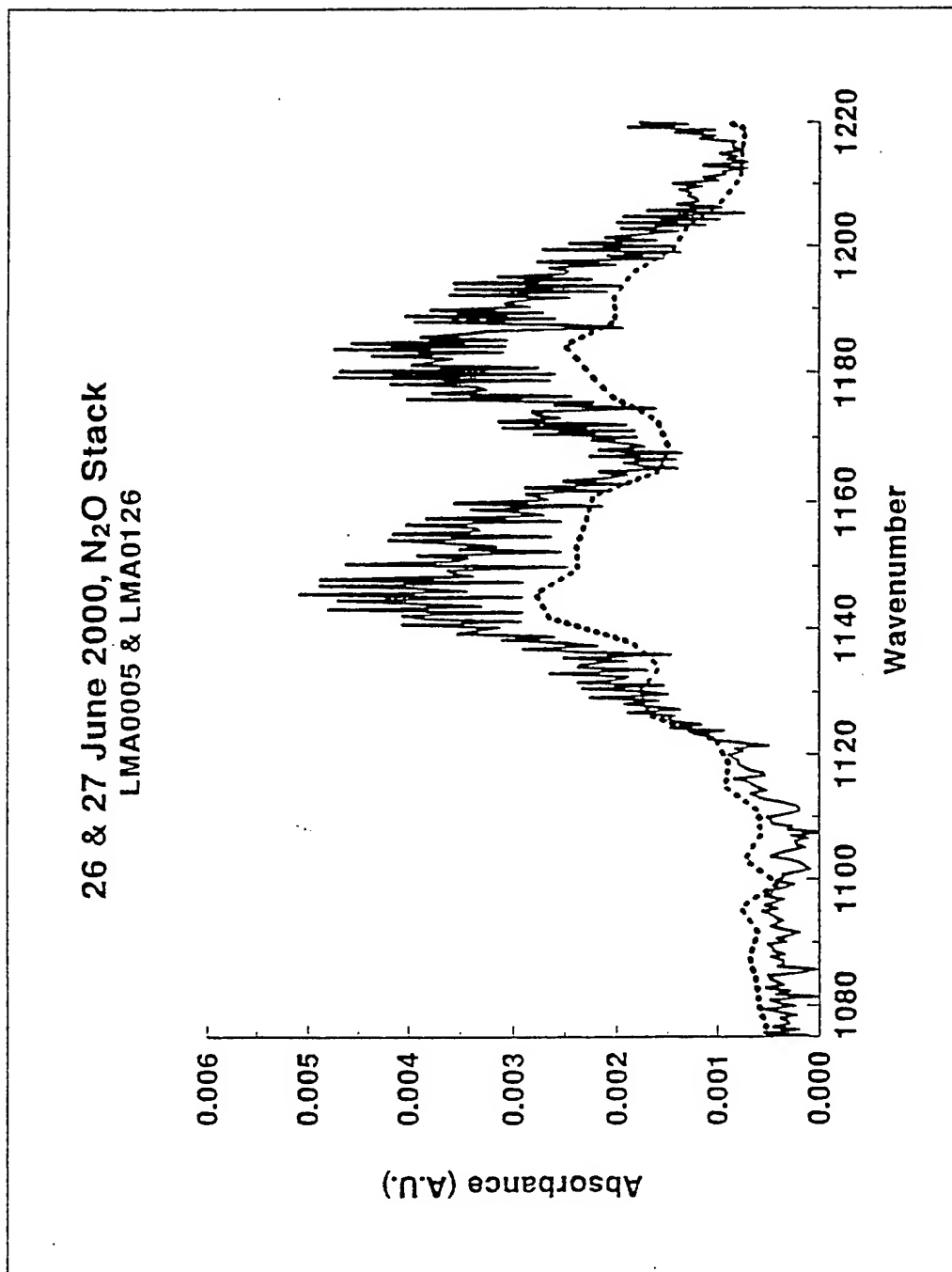


Figure 15. Expanded view of nitrous oxide absorbance band



For example, a difference in the sky background could account for these signal-to-noise magnitudes. Reducing the resolution on the 27 June 2000 spectral data yields a signal-to-noise absorbance value about three times larger than the higher resolution spectra on that date. Any consideration of resolution effects should be restricted to analysis of the same spectral data set. This study employs equation 9 an ARRAY BASIC function to make the reported changes in resolution for the purposes of comparison.

$$\text{filter \#s,0,1,p,1,p,0,1,0} \quad (9)$$

Where in equation 9 the source spectrum, #s, is reduced in spectral resolution by  $1/p$ .<sup>13</sup>

In summary, the largest variation in nitrous oxide emissions occurred on 26 June 2000. The estimated concentrations relying on the 80 ppm-m infrared absorbance database spectrum<sup>14</sup> and stack diameter to judge plume pathlength provides average values that are comparable since each averaged value falls within the error bars of the other measurement. Representative single-beam and absorbance spectra are provided for nitrous oxide in Appendix E.

## 6. AMMONIA DETECTION FROM AMMONIUM NITRATE FACILITY

Ammonia detection is not as clear cut as for the previous two target analytes. In producing Figure 16, the assumption is made that the plume temperature is 100 °C, because significant steam condensation is observed at the stack exit. The  $\nu_2$  bands near 930  $\text{cm}^{-1}$  and 966  $\text{cm}^{-1}$  are clearly visible in each of the traces in Figure 16. The dotted trace in the Figure 16 plot represents spectral data file HMA0109 at about 4  $\text{cm}^{-1}$  spectral point spacing. The large tilt in the baseline for HMA0109 indicates the sky background does not match that of the plume near the stack exit. This is undoubtedly due to the presence of significant amounts of steam and hot water vapor near the stack exit which is not present in the background adjacent to the stack. It may be that the plume near the stack exit is nearly opaque with the steam itself providing a significant blackbody radiance that results in the large tilt in the calculated absorbance spectrum. The solid trace in Figure 16 plot exhibits much less tilt in the baseline and depicts the spectral data file HMA0213 at about 0.5  $\text{cm}^{-1}$  spectral point spacing. This spectrum is collected at an offset down wind from the stack of about 500 feet. The baseline tilt is much less, which indicates the background is more representative for this down wind plume with presumably less water content. Using the 85 ppm-m database absorbance spectra<sup>14</sup> a rough estimate of the concentration pathlength product for HMA0109 is about 25 ppm-m, whereas for HMA0213 the rough estimate is 20 ppm-m. Each of these rough estimates assumes the gas plume temperature of 100 °C. The spectra required to generate Figure 16 are furnished in Appendix F.

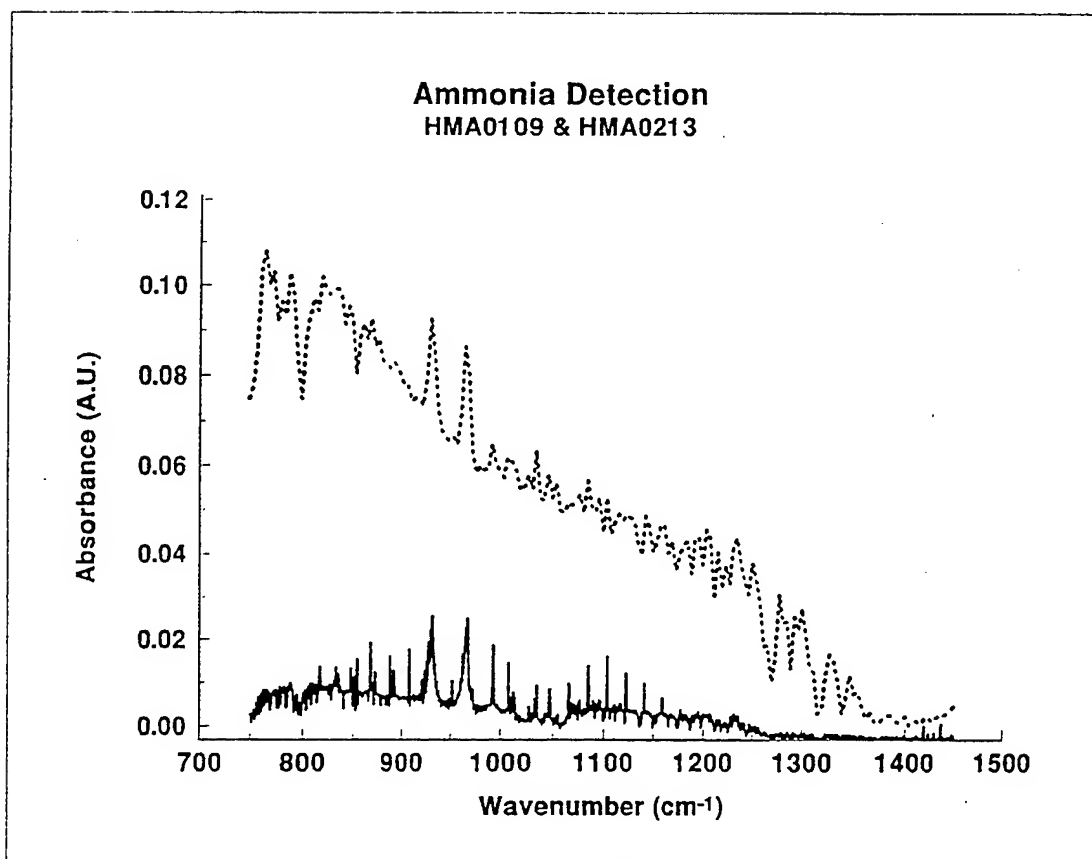


Figure 16. Ammonia detection from ammonium nitrate facility

## 7. CONCLUSIONS

The procedure for obtaining absorbance and transmittance spectra from single-beam passive FT-IR spectra has been shown. The approach relies on an independent knowledge of the plume temperature exiting from the stack. Evaluation of the spectrometer responsivity and self-emission terms allows assessment of plume transmittance with the ratio of the differences for three single-beam spectra. The transmittance spectra have been converted to absorbance, which is subsequently evaluated with spectral data from an IR database to determine the concentration pathlength product. This product assessment is only as reliable as the accuracy of the quantitative IR database values employed. To determine concentration requires an independent determination of the plume dimensions. For this study, the plume dimensions have been assumed to be those of the stack diameters which is only an approximation. Under conditions of no wind this approximation may be reasonable.

Three types of industrial stacks were assessed with the ground-based FT-IR spectrometer. First, coal burning power plant stacks were monitored for sulfur dioxide. Second, an acid plant stack was evaluated for nitrous oxide emission. Third, a stack in the ammonia nitrate facility was examined.

Results on the power plant stacks encompass five days. The variations in the sulfur dioxide output ranges from about 50% to 8%. Only 6 June 2000 exhibits the large variation of about 50%, whereas 8 June 2000 shows the smallest change of about 8%. The computed averaged daily concentration pathlength products are  $961 \pm 422$  ppm-m on 6 June 2000 for stack #1 and  $1346 \pm 114$  ppm-m on 8 June 2000 for stack #1 both using the  $1130.0 \text{ cm}^{-1}$  band. Using the stack diameter of 1.5 m allows a concentration estimate of  $641 \pm 283$  ppm and  $897 \pm 76$  ppm for these two days, respectively.

Assessment of the acid plant stack emitting nitrous oxide focuses on the two evaluation days for plant operation on 26 and 27 June 2000. The spectral band between  $1120 \text{ cm}^{-1}$  and  $1210 \text{ cm}^{-1}$  is used in evaluations with a signal-to-noise value ranging from 20 to 40 depending on the spectrometer spectral resolution. The concentration pathlength product estimates for the  $1145.5 \text{ cm}^{-1}$  band on 26 June 2000 and  $1146.9 \text{ cm}^{-1}$  band on 27 June 2000 are  $301 \pm 129$  and  $372 \pm 102$ , respectively.

Examination of the ammonia nitrate facility stack indicated the presence of ammonia. Assuming a plume temperature of  $100^\circ\text{C}$  a rough estimate of about 20 ppm-m was made for the concentration pathlength product. The absorbance spectra near the stack possessed a large tilt in the baseline which was most likely due to a mismatch of the sky background to the target plume. Note the target plume contained a significant amount of steam near the stack.

**Refinement of the ground-based FT-IR spectrometer evaluation of the industrial stacks could include an independent measurement of plume temperature near the stack exit as well as plume dimensions. Results of these suggested measurements would remove some of the estimates and assumptions required in this study to produce absorbance spectra and subsequent concentration appraisals with passive ground-based FT-IR spectrometry.**

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APPENDIX A  
ARRAY BASIC PROGRAM LISTINGS

```
'Program: RLTA.ab
'Description: Calculates the responsivity, self emission,
'             transmittance, and absorbance.
'Inputs: Blackbody curves and single-beam spectra.
'Author: Roger J. Combs
'Date: June 1998
'

free
dim bbnam(15),avnam(15),bsnam(15),snnam(15),sonam(15)
menufile Sbbnam,"Select First BK001.SPC file: "
loadspc Sbbnam
menufile Savnam,"Select First AVE001.SPC file: "
loadspc Savnam
string bbnam,0
string avnam,0
string bsnam,0
string snnam,0
string sonam,0
menufile Sbbnam,"Select Second BK002.SPC file: "
loadspc Sbbnam
menufile Savnam,"Select Second AVE002.SPC file: "
loadspc Savnam
menufile Sbsnam,"Select BLKSTK.SPC file: "
loadspc Sbsnam
menufile Ssnnam,"Select STKON.SPC file: "
loadspc Ssnnam
menufile Ssonam,"Select STKOFF.SPC file: "
loadspc Ssonam
npt=npts(#s)
ept=npt-1
mfreq=freq(#s(#ept)): print mfreq
newspc R(npt),LE1(npt),T(npt),AB(npt)
setfile #4
setffp 0,mfreq
#s=abs((#10-#8)/(#11-#9))      'R : System response
setfile #3
setffp 0,mfreq
setfile #2
setffp 0,mfreq
setfile #1
setffp 0,mfreq
```

```

setleft 750,1450
gosub 100
setfile #2
gosub 100
setfile #3
gosub 100
setfile #4
gosub 100
setfile #5
gosub 100
setfile #6
gosub 100
setfile #7
gosub 100
setfile #8
gosub 100
setfile #9
gosub 100
setfile #10
gosub 100
setfile #11
gosub 100
setfile #3
#s=(#10/#4)-#11          'Le : System Self Emission
setfile #7
#s=(#s+#3)*#4            'SB : Response to stk BB
setfile #2
#s=(#6-#7)/(#5-#7)       'T : Transmittance
setfile #1
#s=inverse(#2): #s=log(#s) 'A : Absorbance
end

100  #s=#s(getleft(),getright())
      return

```



'PROGRAM: BKBODY.AB

10 JAN 93

' BKBODY.AB calculates the blackbody curve from the Plank  
' equation. See P.R.Grittiths and J.A.deHaseth, "Fourier  
' Transform Infrared Spectroscopy", John Wiley & Sons, NY  
' p.248 equation 7.4 (1986). The program requires input  
' of an infrared spectrum.

```
free
dim snam(15)
menufile $snam,"Select input infrared spectrum: "
loadspc $snam
npt=npts(#s)
ept=npt-1
mfreq=freq(#s(#ept))
res=mfreq/ept
newspc HTBB(npt),LTBB(npt)
dim wary(npt),cary(npt),xary(npt),bary(npt)
c1=1.191*(10^-12)
c2=1.439
input "Enter High Blk Body Temperature (K): ";temp
gosub 100
HTBB=bary
setfile #2
setffp 0,mfreq
input "Enter Low Blk Body Temperature (K): ";temp
gosub 100
LTBB=bary
setfile #1
setffp 0,mfreq
end
```

```
100  fillbeg res
      fillinc mfreq/npts(#3)
      wary=fill(wary)
      cary=wary*squared(wary)
      cary=cary*c1
      xary=wary*c2
      xary=xary/temp
      xary=exp(xary)-1
      bary=cary/xary
      return
```

**Blank**

## APPENDIX B

### SULFUR DIOXIDE ABSORBANCES

Tabulations of  $A$  and  $\tau$  at two sulfur dioxide bands are provided for power plant stacks #1, #2, and #3. The tables include time of day (TOD) and initial operation time (IOT) of the spectrometer for that day. For the statistically significant number of measurements an average and BESD are furnished. Following each table is a set of plots for  $A$  and  $\tau$  as a function of IOT for each sulfur dioxide band. The information appears in the order of the summary table below.

DATE	SPS ( $\text{cm}^{-1}$ )	STACK #	No. Pts.
6JUN00	4	2	1
5JUN00	4	3	17
6JUN00	4	1	13
6JUN00	4	3	15
7JUN00	4	1	8
7JUN00	4	3	8
8JUN00	4	1	9
8JUN00	4	3	7
6JUN00	0.5	1	2
7JUN00	0.5	1	1
6JUN00	0.5	2	2
7JUN00	0.5	2	1
5JUN00	0.5	3	1
6JUN00	0.5	3	2
7JUN00	0.5	1	1
27JUN00	0.5	3	13

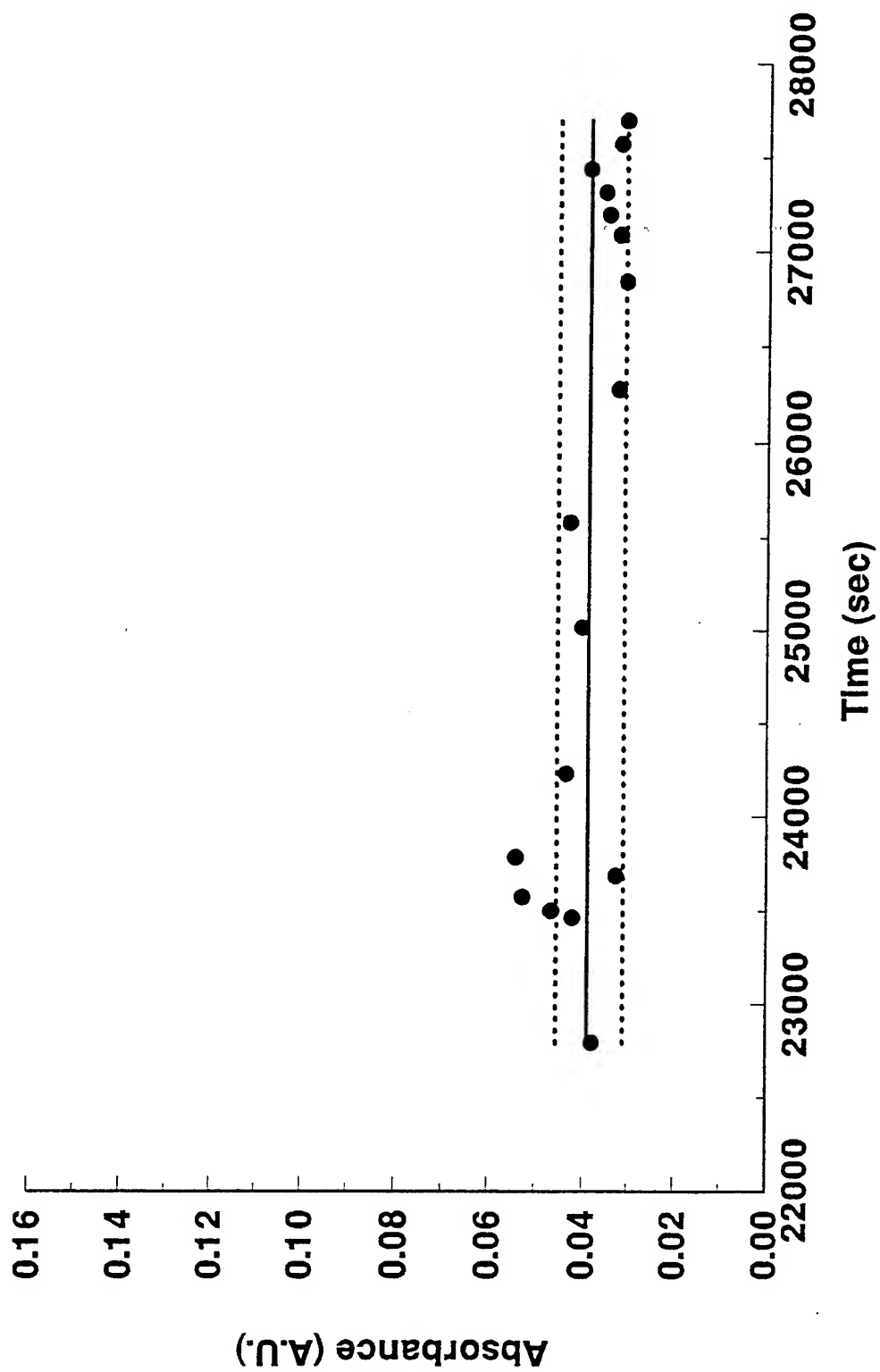
**Dates:** 6 June 2000  
**Source:** Stack #2  
**SPS:** 4 cm<sup>-1</sup>

		1130.0 cm <sup>-1</sup>		1168.6 cm <sup>-1</sup>	
Filename	TOD	A*10 <sup>2</sup>	τ	A*10 <sup>2</sup>	τ
	Hr:Mn:Sc	(A.U.)		(A.U.)	
HMA0202	09:39:14	0.132755	0.999694	-0.000709	1.000016

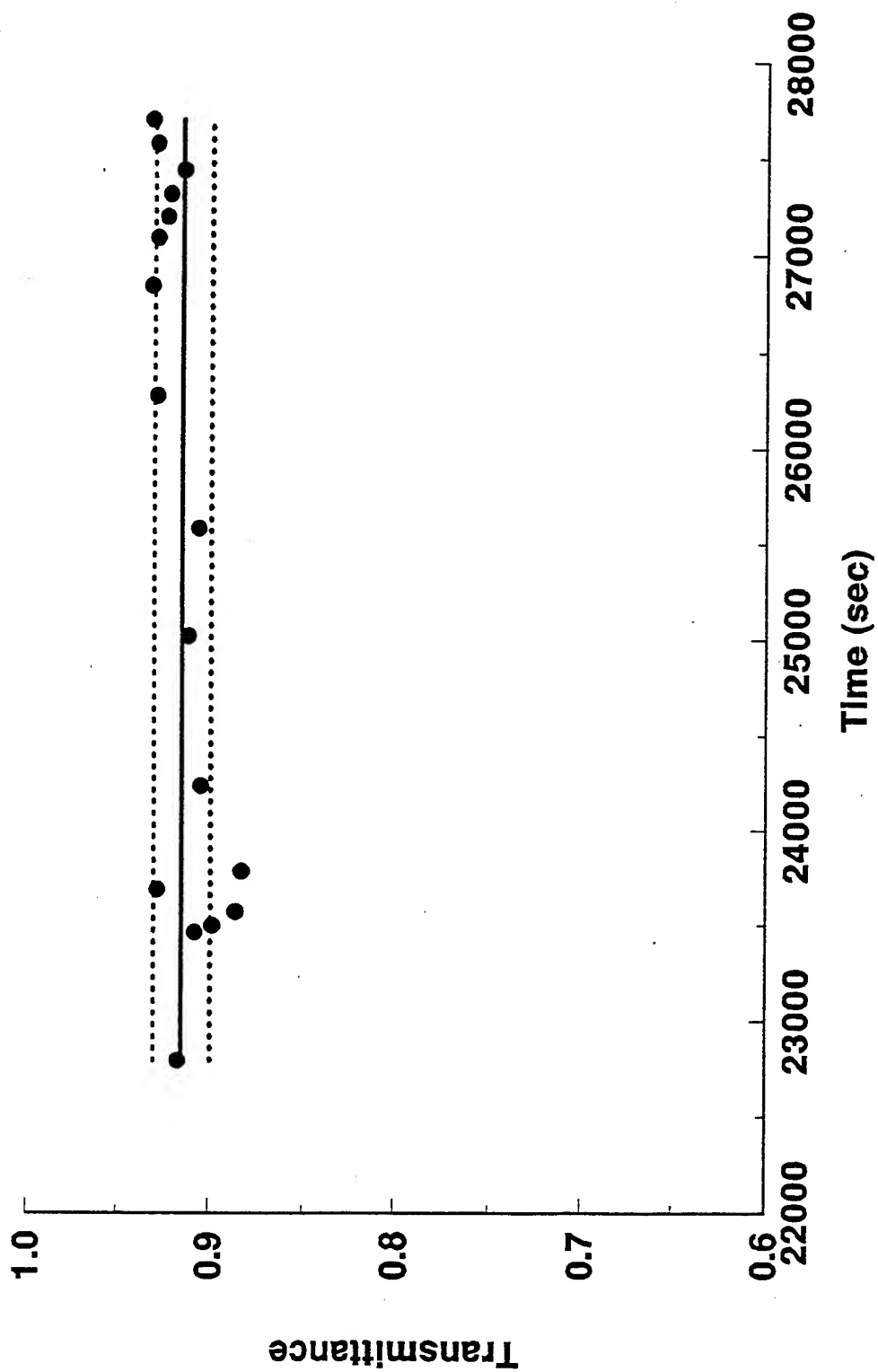
Date: 5 June 2000  
Source: Stack #3  
SPS: 4 cm<sup>-1</sup>

Filename	TOD Hr:Mn:Sc	IOT (sec)	1130.0 cm <sup>-1</sup>		1168.6 cm <sup>-1</sup>	
			A*102 (A.U.)	$\tau$	A*102 (A.U.)	$\tau$
HMA0102	13:59:51	22791	3.790502	0.9164209	4.245524	0.9068695
HMA0103	14:11:02	23462	4.219978	0.9074031	4.725016	0.8969121
	14:11:38	23498	4.664916	0.8981541	5.250221	0.8861308
	14:21:51	23571	5.257853	0.8859751	5.816003	0.8746614
	14:14:47	23687	3.261647	0.9276488	3.819734	0.9158042
	14:16:24	23784	5.408803	0.8829009	6.119070	0.8685782
HMA0104	14:23:53	24233	4.364205	0.9043946	5.016084	0.8909209
HMA0105	14:36:55	25015	4.038764	0.9111972	4.636197	0.8987482
HMA0106	14:46:19	25579	4.313363	0.9054540	4.972965	0.8918059
HMA0107	14:57:57	26277	3.243578	0.9280348	3.717531	0.9179620
HMA0108	15:07:20	26840	3.096258	0.9311881	3.623856	0.9199441
	15:11:23	27083	3.242519	0.9280740	3.710188	0.9181172
	15:13:12	27192	3.483474	0.9229226	4.089925	0.9101244
	15:15:10	27310	3.560462	0.9212879	4.108671	0.9097316
	15:17:13	27433	3.909708	0.9139089	4.580003	0.8999119
	15:19:32	27572	3.223936	0.9284545	3.768129	0.9168932
	15:21:34	27694	3.104014	0.9310219	3.670886	0.9189485
	AVE		3.893175	0.9143788	4.462943	0.9024744
	BESD		0.729758	0.0015275	0.771933	0.0159409

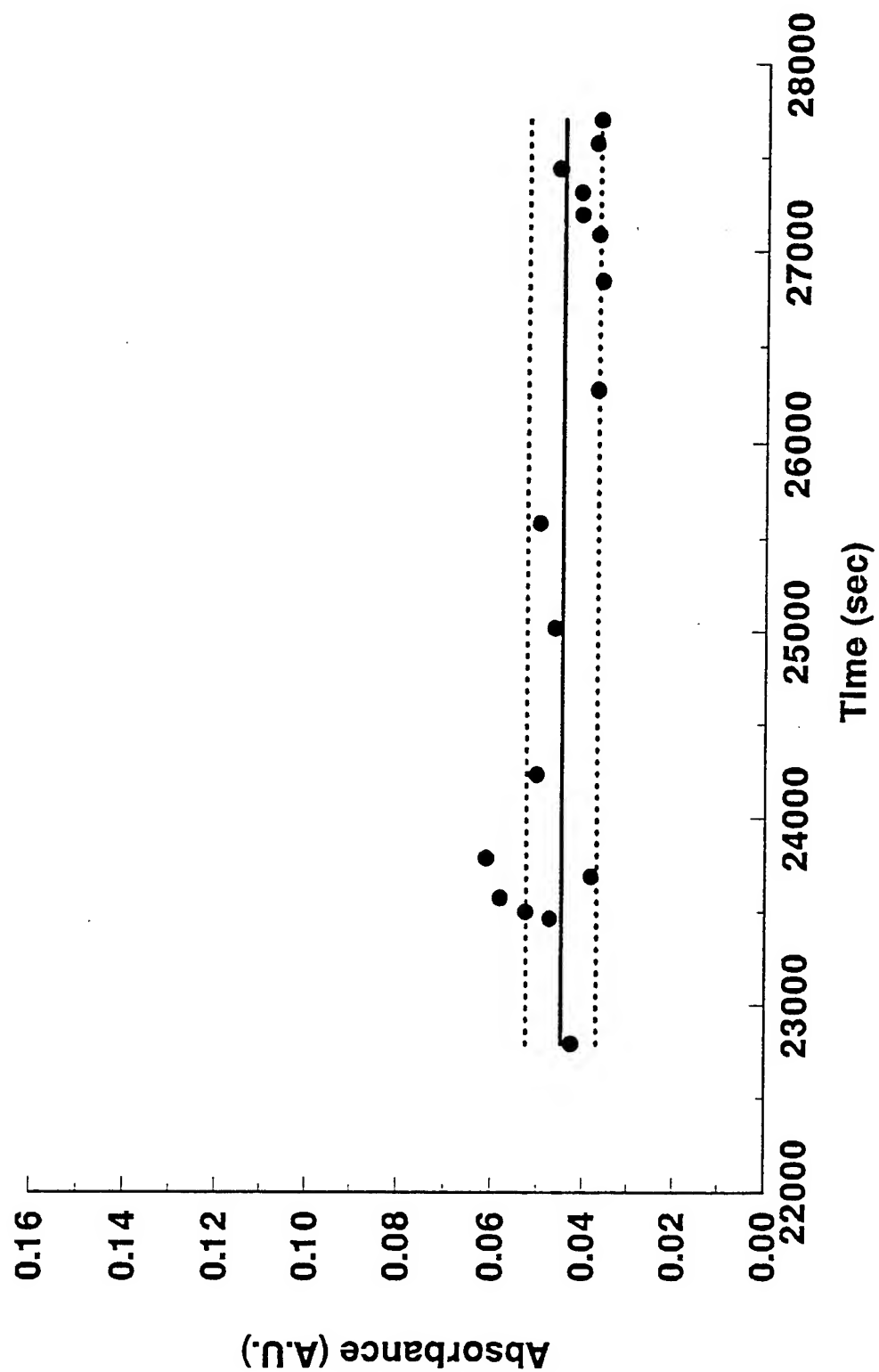
5 June 2000, Stack 3  
1130  $\text{cm}^{-1}$



5 June 2000, Stack 3  
1130 cm<sup>-1</sup>

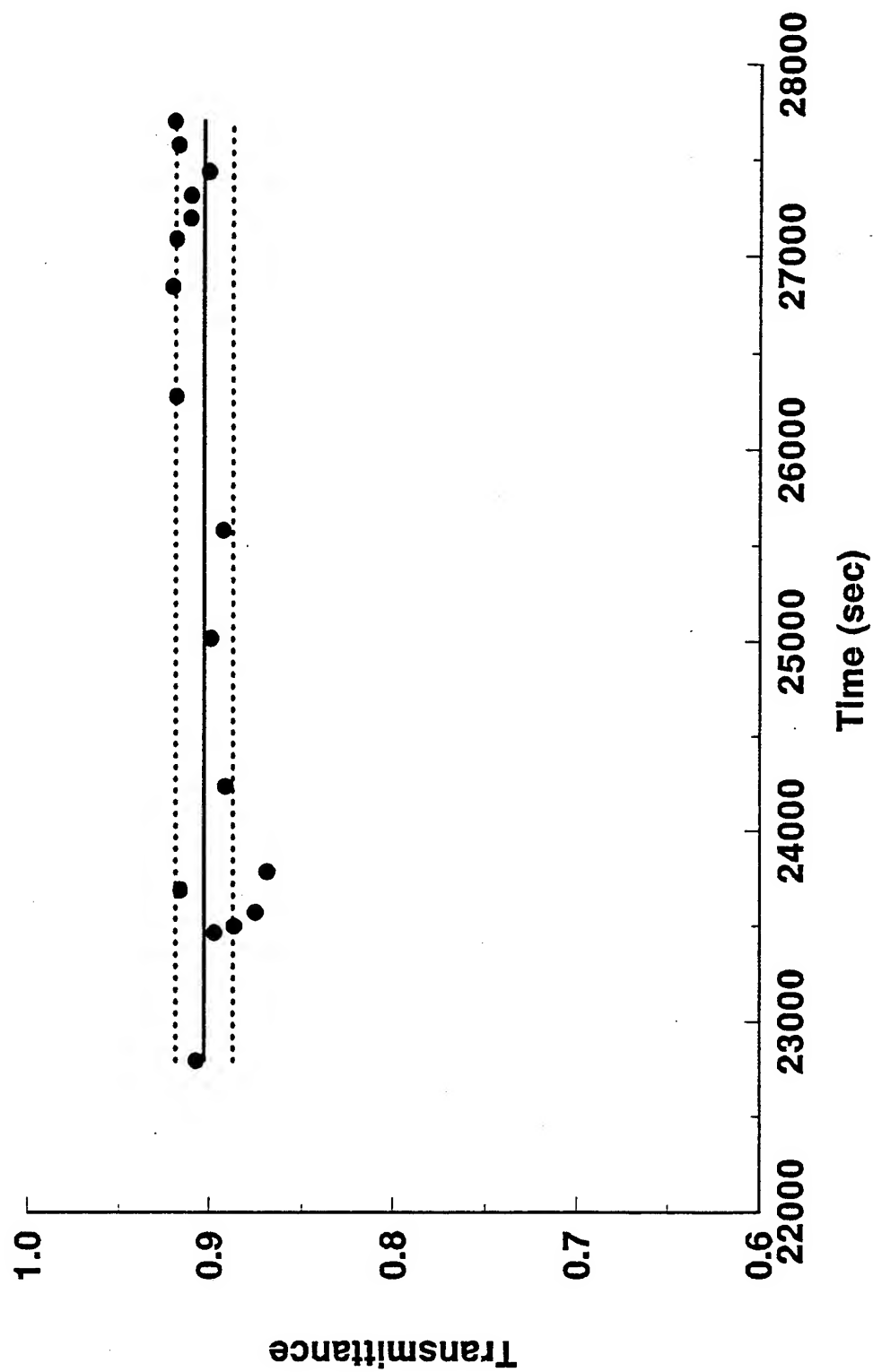


5 June 2000, Stack 3  
1168.6  $\text{cm}^{-1}$





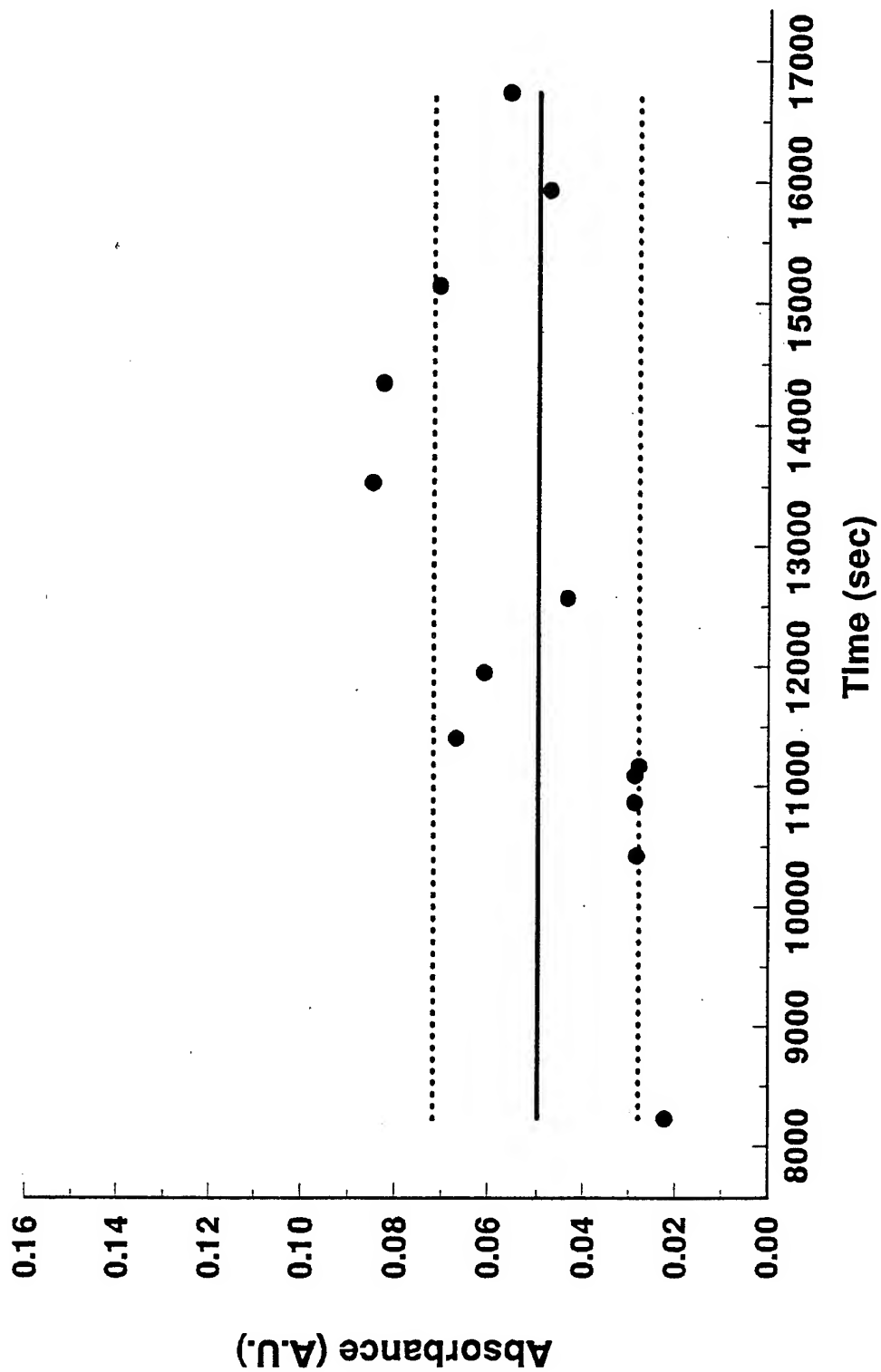
5 June 2000, Stack 3  
1168.6 cm<sup>-1</sup>



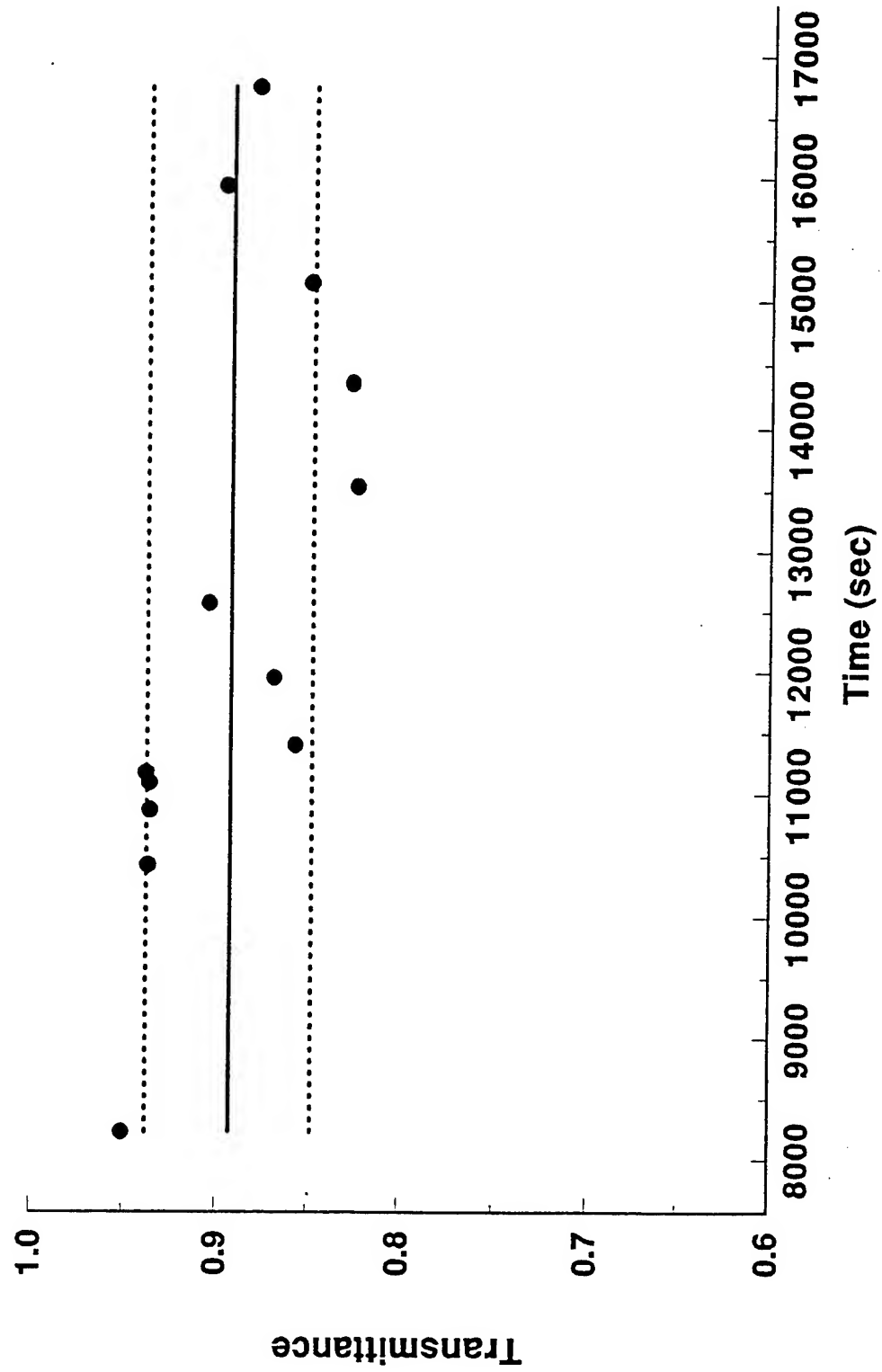
Date: 6 June 2000  
Source: Stack #1  
SPS: 4 cm<sup>-1</sup>

Filename	TOD Hr:Mn:Sc	IOT (sec)	1130.0 cm <sup>-1</sup>		1168.6 cm <sup>-1</sup>	
			A*10 <sup>2</sup> (A.U.)	$\tau$	A*10 <sup>2</sup> (A.U.)	$\tau$
HMA0202	09:37:04	8224	2.219851	0.9501704	2.506993	0.9439089
HMA0203	10:13:45	10425	2.843752	0.9366180	3.213717	0.9286731
	10:21:07	10867	2.886400	0.9356987	3.306626	0.9266840
HMA0204	10:24:51	11091	2.873488	0.9359769	3.292489	0.9269901
	10:26:09	11169	2.789655	0.9377854	3.189285	0.9291956
	10:30:00	11400	6.693076	0.8571746	7.581590	0.8398159
HMA0205	10:39:11	11951	6.089841	0.8691638	6.981445	0.8515018
HMA0206	10:52:30	12570	4.353393	0.9046198	5.636450	0.8782850
HMA0207	11:05:29	13529	8.485620	0.8235963	9.824511	0.7975445
HMA0208	11:19:03	14343	8.260047	0.8267982	9.618729	0.8013325
HMA0209	11:32:19	15139	7.073275	0.8497032	8.215746	0.8276421
HMA0210	11:45:29	15929	4.750554	0.8963848	5.504459	0.8809584
HMA0211	11:58:55	16735	5.585009	0.8793260	6.513446	0.8607272
AVE			4.98659	0.8925397	5.798885	0.8764045
BESD			2.19713	0.0448177	2.560295	0.0513357

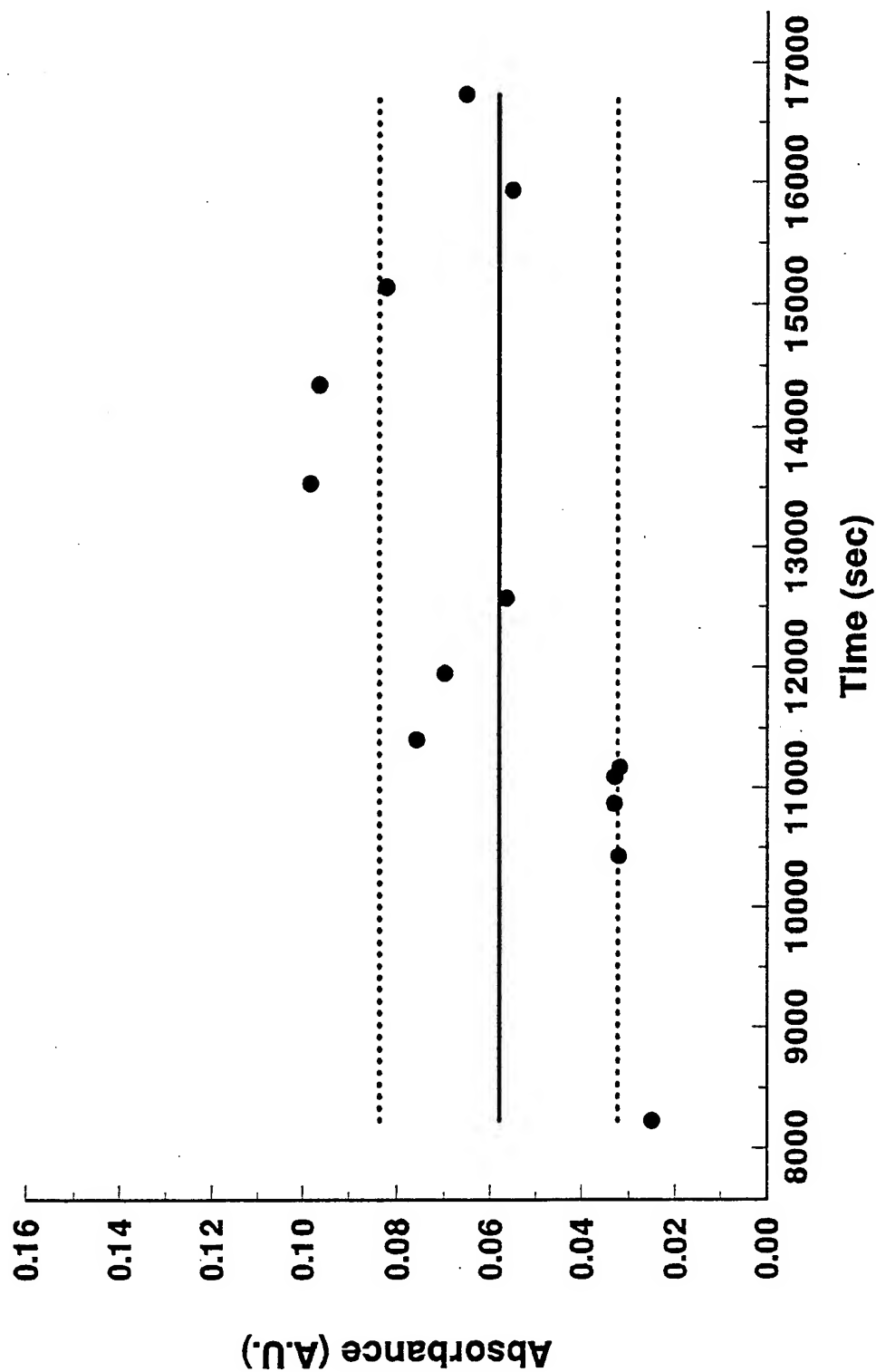
6 June 2000, Stack 1  
1130 cm<sup>-1</sup>



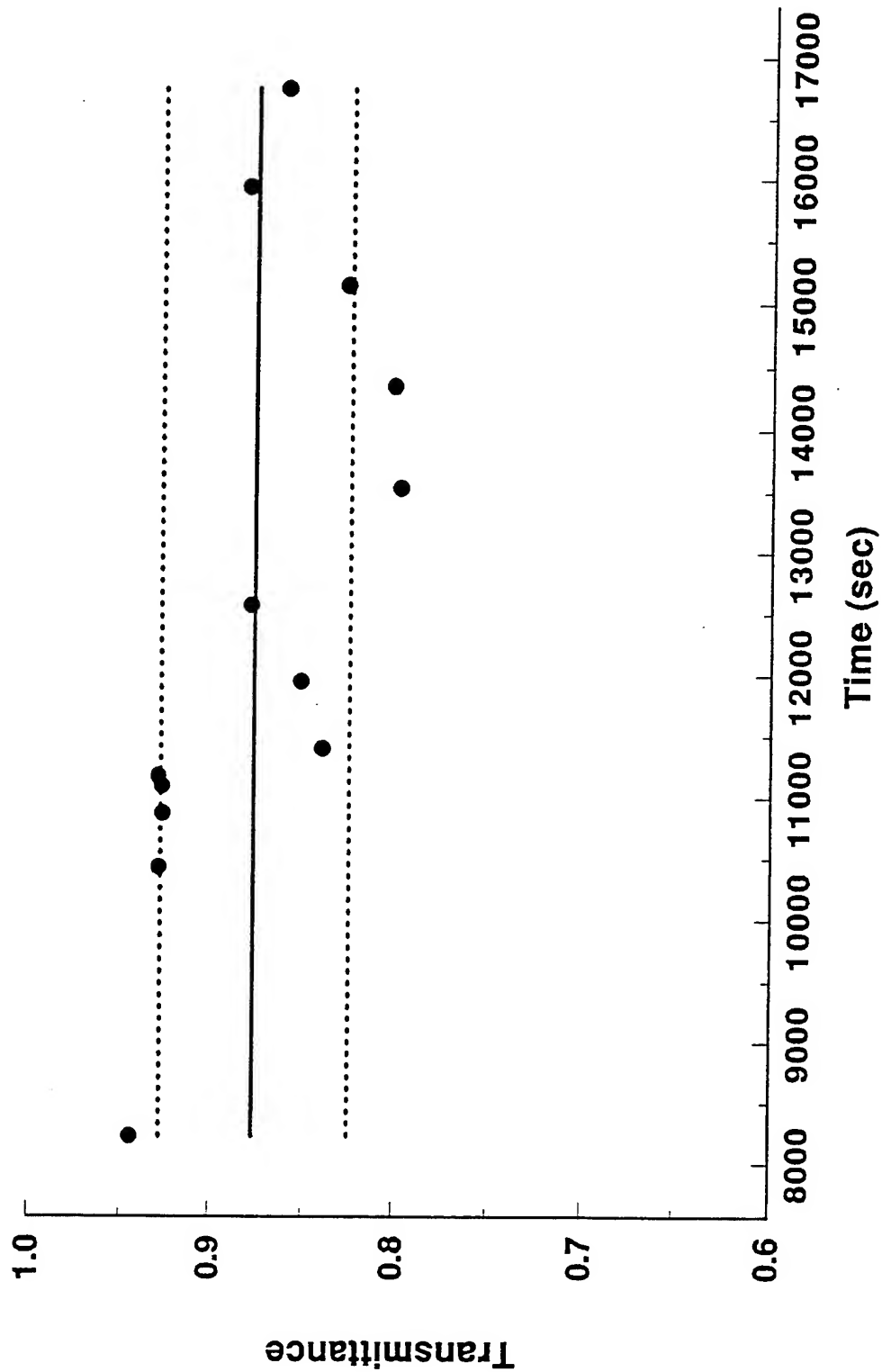
6 June 2000, Stack 1  
1130 cm<sup>-1</sup>



6 June 2000, Stack 1  
1168.6 cm<sup>-1</sup>



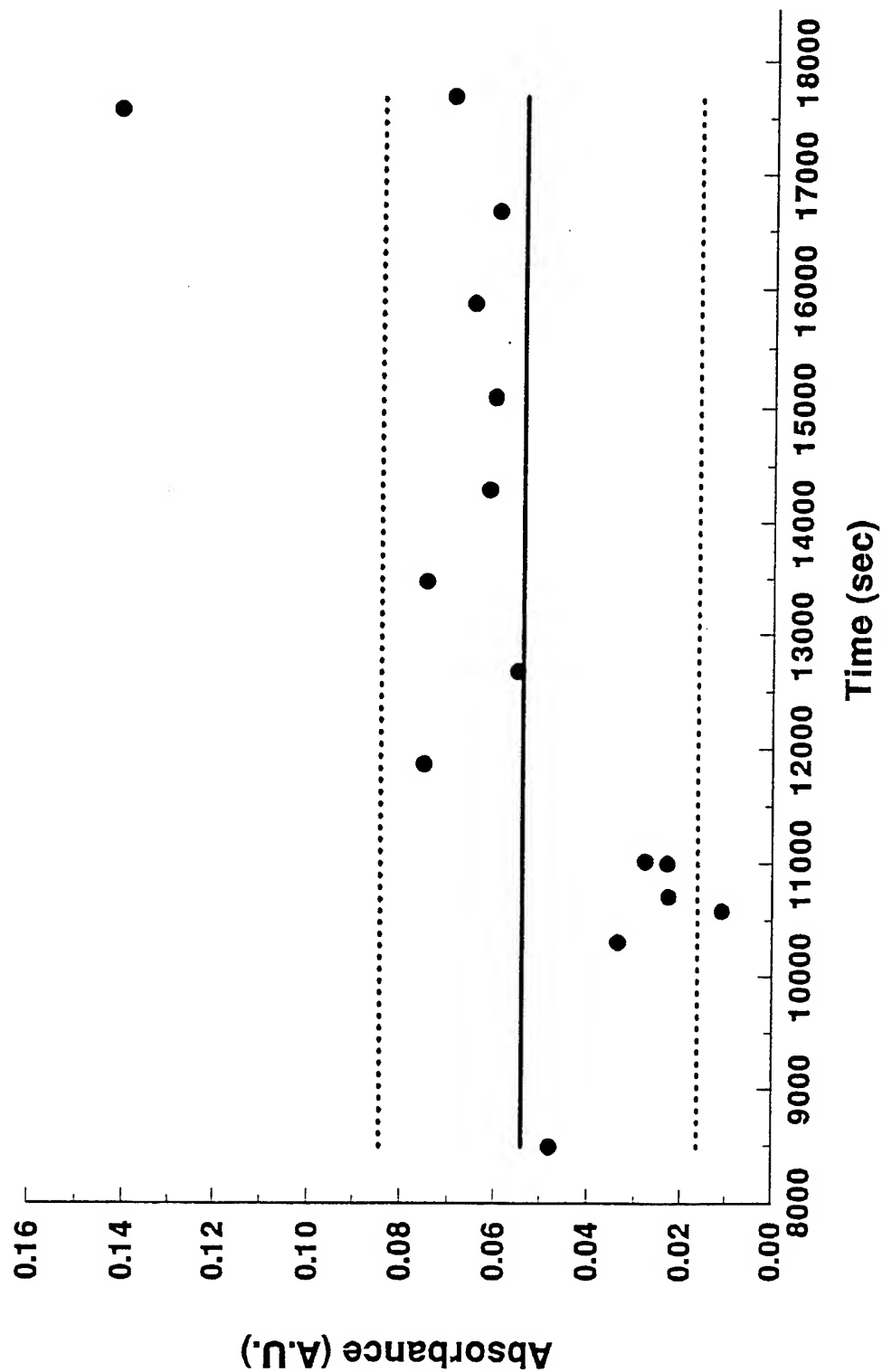
6 June 2000, Stack 1  
1168.6 cm<sup>-1</sup>



Date: 6 June 2000  
Source: Stack #3  
SPS: 4 cm<sup>-1</sup>

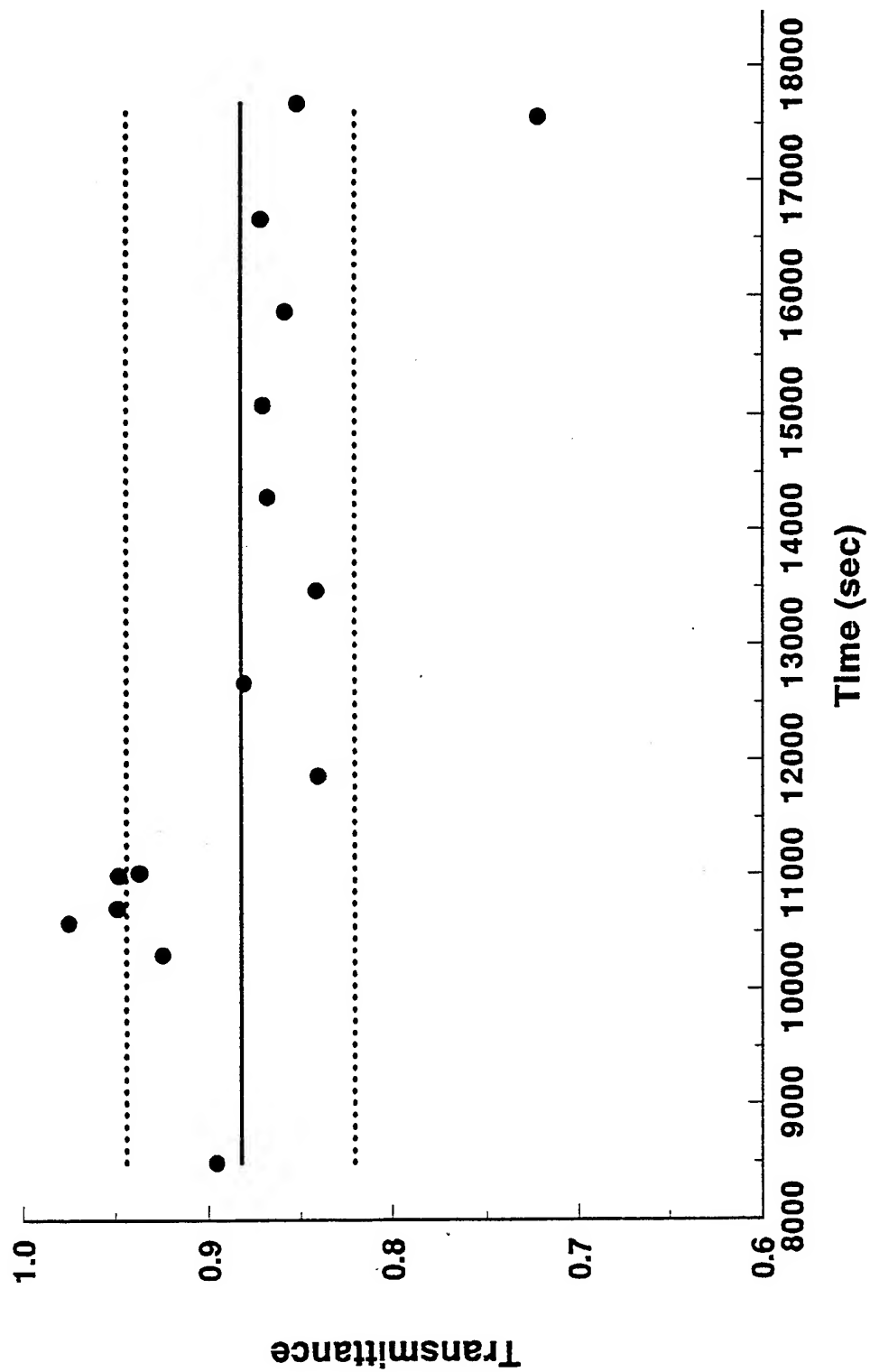
Filename	TOD Hr:Mn:Sc	IOT (sec)	1130.0 cm <sup>-1</sup>		1168.6 cm <sup>-1</sup>	
			A*10 <sup>2</sup> (A.U.)	τ	A*10 <sup>2</sup> (A.U.)	τ
HMA0202	09:14:30	8490	4.780681	0.8957632	5.459655	0.8818678
HMA0203	10:11:41	10301	3.367123	0.9253985	3.856190	0.9150359
	10:16:21	10581	1.101593	0.9749539	1.237354	0.9719109
	10:18:29	10709	2.285080	0.9487440	2.591343	0.9420774
HMA0204	10:23:16	10996	2.316216	0.9480644	2.657308	0.9406476
	10:23:37	11017	2.793304	0.9377066	3.208114	0.9287928
HMA0205	10:37:41	11861	7.536710	0.8406842	8.775871	0.8170362
HMA0206	10:51:06	12666	5.523770	0.8805668	6.373145	0.8635124
HMA0207	11:04:28	13468	7.497027	0.8414528	8.704414	0.8183816
HMA0208	11:18:04	14284	6.158769	0.8677854	7.172020	0.8477734
HMA0209	11:31:21	15081	6.043196	0.8700978	7.018850	0.8507687
HMA0210	11:44:30	15870	6.496810	0.8580314	7.715033	0.8372395
HMA0211	11:57:45	16665	5.979166	0.8713815	6.915342	0.8527988
HMA0212	12:12:37	17557	14.13036	0.7222648	14.12495	0.7223548
	12:14:36	17676	6.976347	0.8516018	7.388244	0.8435631
AVE			5.040155	0.8822998	6.213190	0.8689174
BESD			3.403998	0.0617936	3.237807	0.0634857

6 June 2000, Stack 3  
1130  $\text{cm}^{-1}$

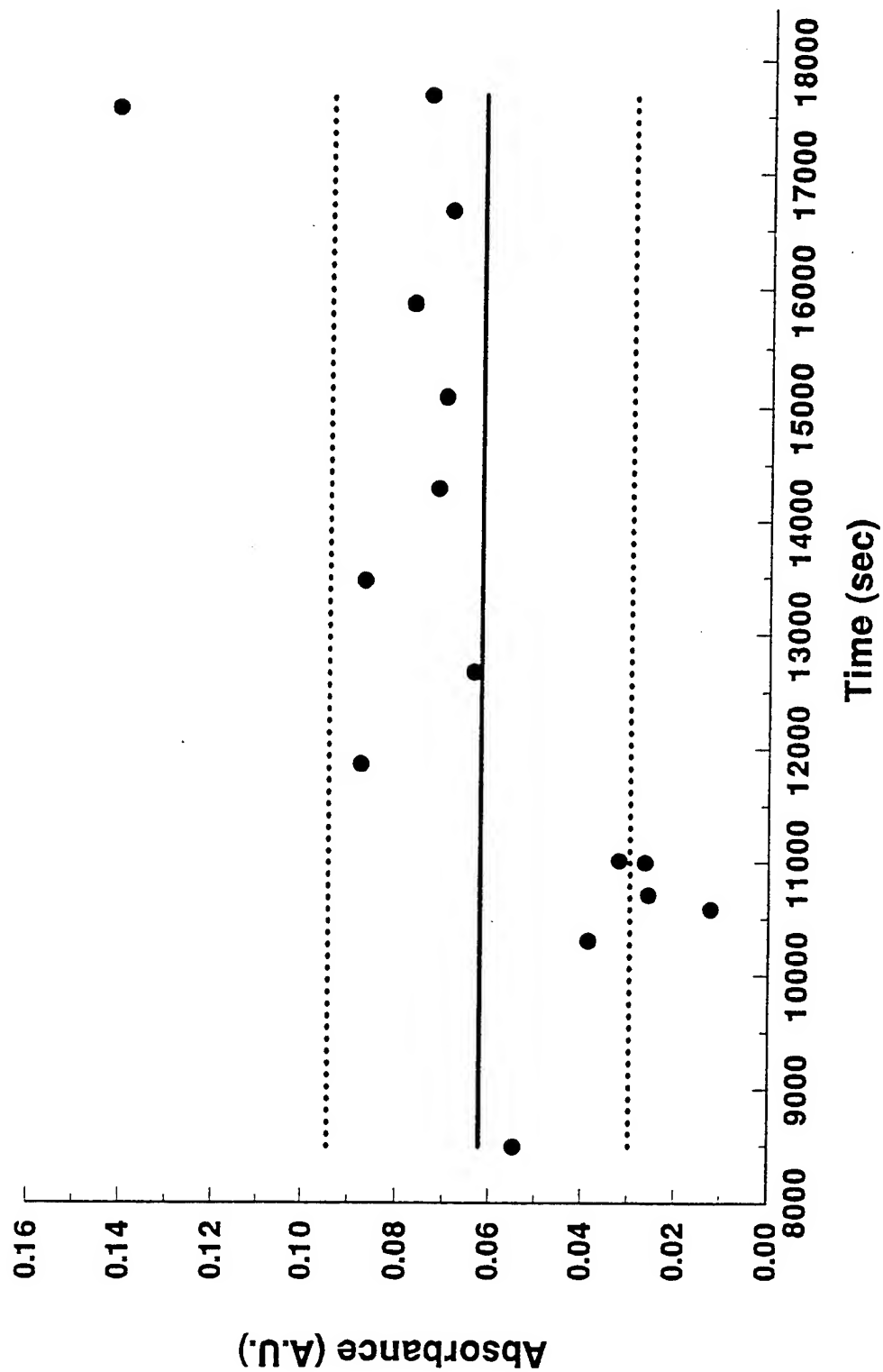


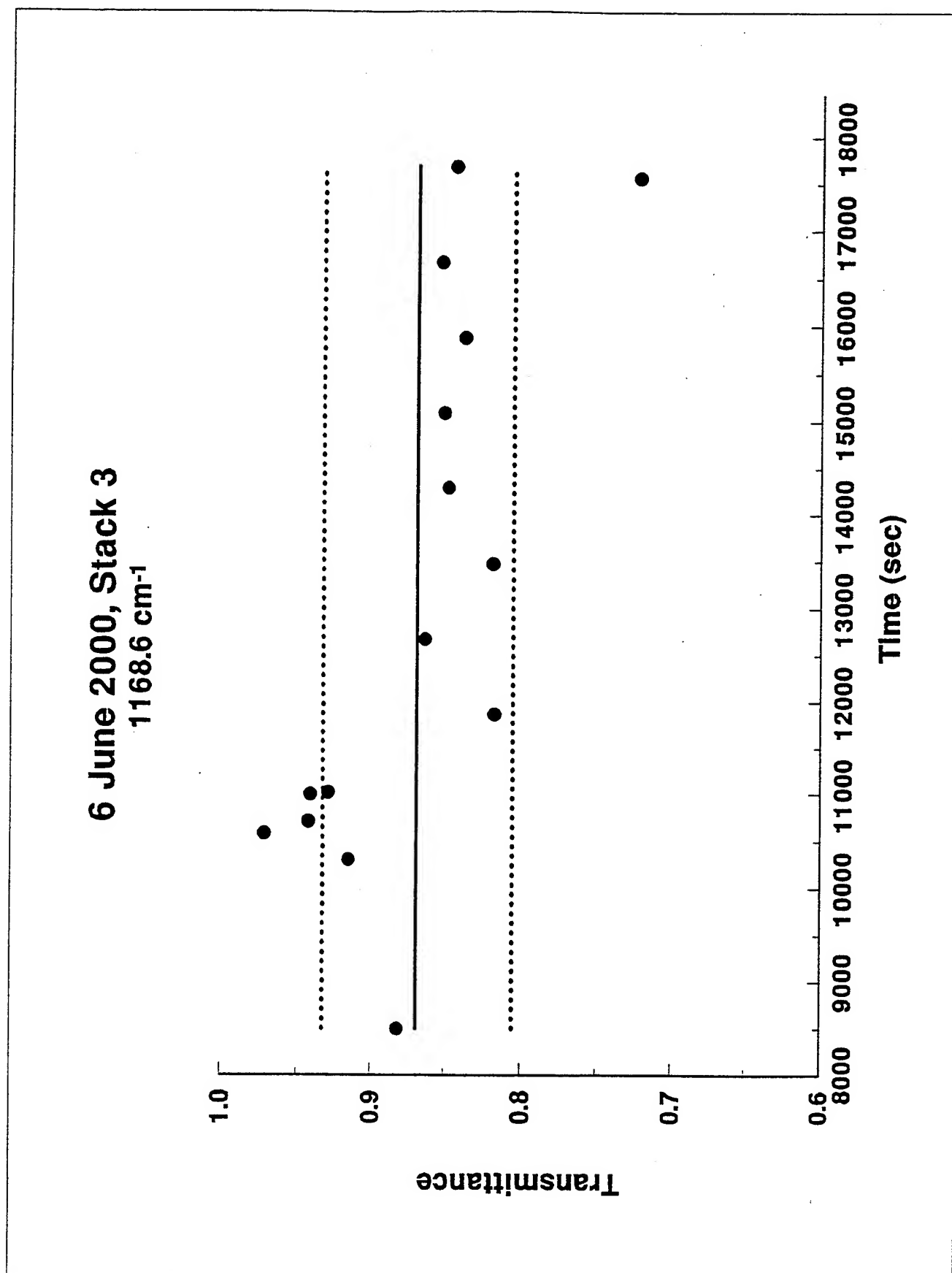


6 June 2000, Stack 3  
1130 cm<sup>-1</sup>



6 June 2000, Stack 3  
1168.6  $\text{cm}^{-1}$

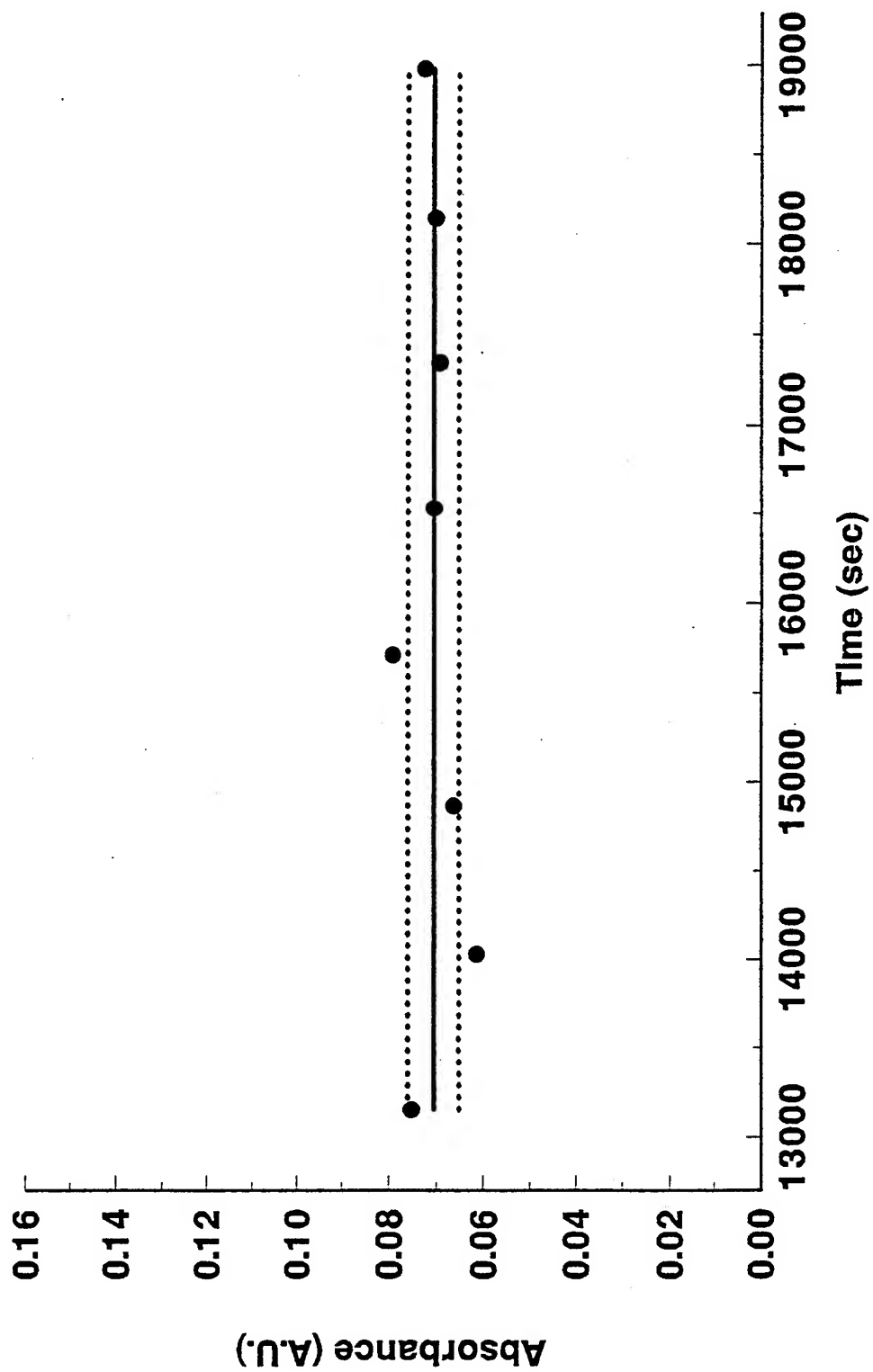




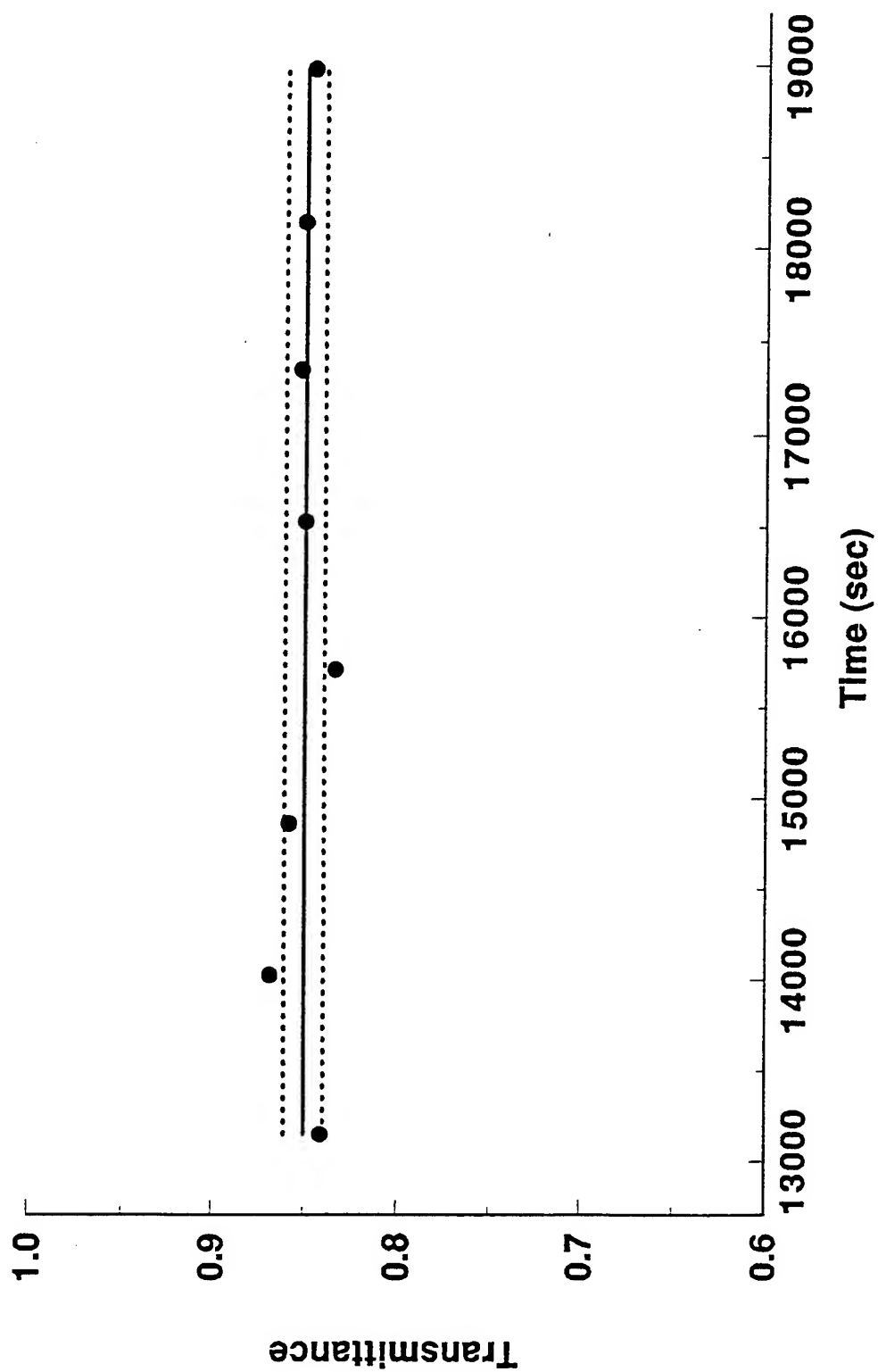
Date: 7 June 2000  
Source: Stack #1  
SPS: 4 cm<sup>-1</sup>

Filename	TOD Hr:Mn:Sc	IOT (sec)	1130.0 cm <sup>-1</sup>		1168.6 cm <sup>-1</sup>	
			A*10 <sup>2</sup> (A.U.)	τ	A*10 <sup>2</sup> (A.U.)	τ
HMA0315	14:15:09	13149	7.521579	0.8409772	8.451502	0.8231614
HMA0316	14:29:46	14026	6.147968	0.8680012	6.853873	0.8540067
HMA0317	14:43:41	14861	6.639022	0.8582421	7.553116	0.8463668
HMA0318	14:57:49	15709	7.914287	0.8334071	8.937417	0.8140027
HMA0319	15:11:25	16525	7.056827	0.8500251	7.935309	0.8330037
HMA0320	15:25:04	17344	6.925663	0.8525962	7.747224	0.8366191
HMA0321	15:38:18	18138	7.014682	0.8508503	7.941651	0.8328821
HMA0322	15:52:18	18978	7.254653	0.8461619	8.021054	0.8313606
AVE			7.059335	0.8500326	7.930143	0.8339254
BESD			0.535842	0.0104949	0.612817	0.0124599

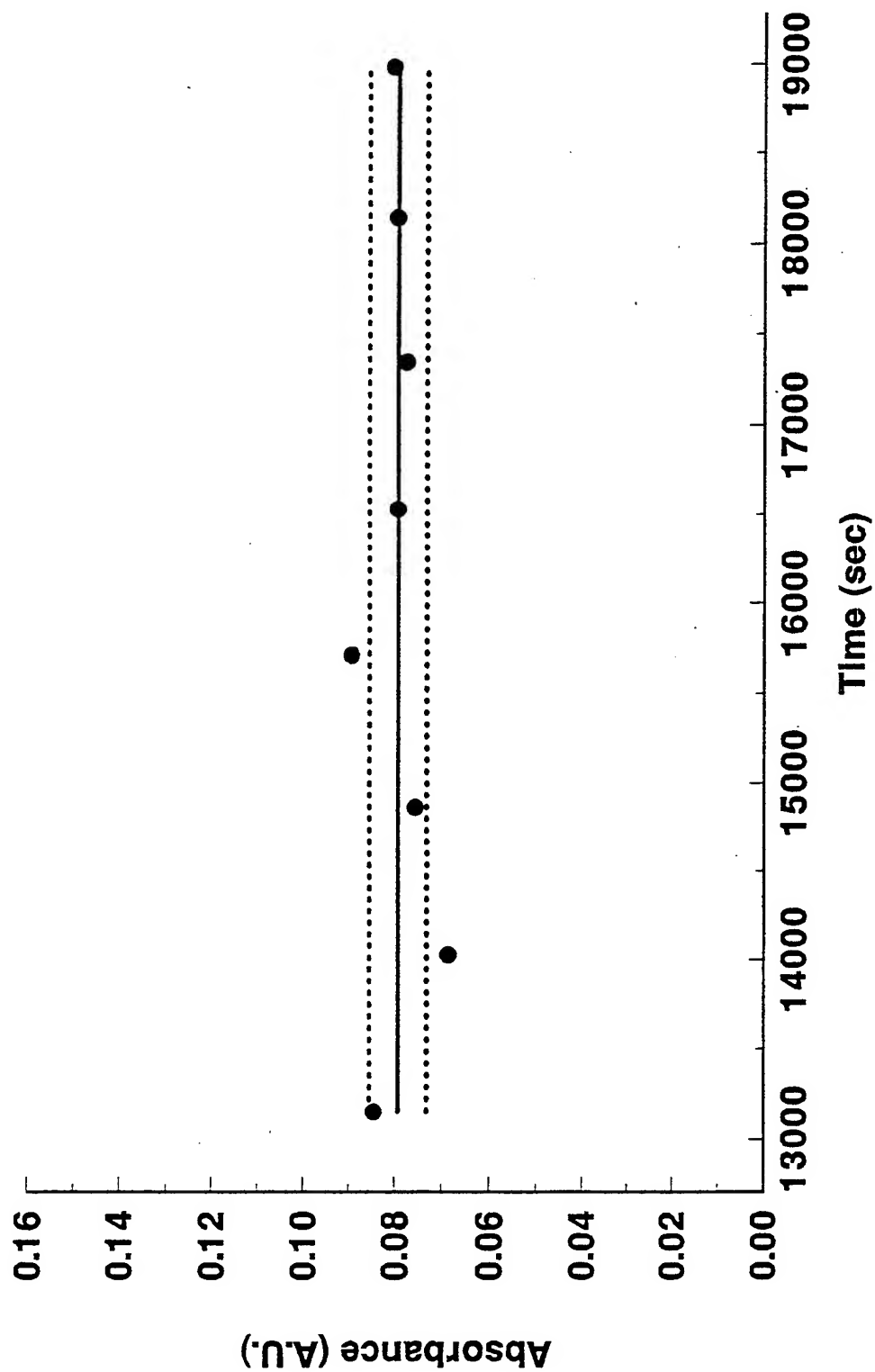
7 June 2000, Stack 1  
1130 cm<sup>-1</sup>



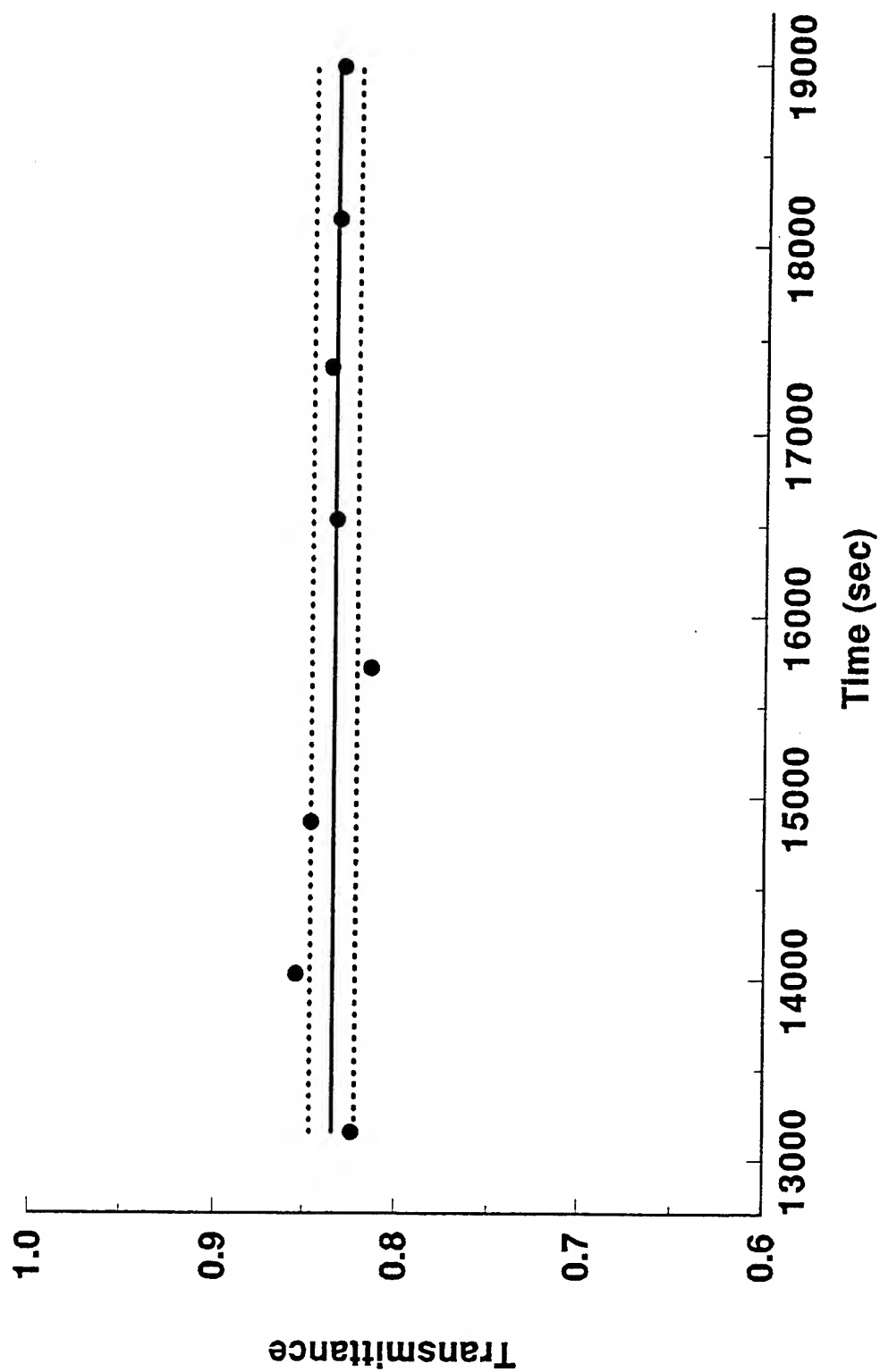
7 June 2000, Stack 1  
1130 cm<sup>-1</sup>



7 June 2000, Stack 1  
1168.6 cm<sup>-1</sup>



7 June 2000, Stack 1  
1168.6 cm<sup>-1</sup>

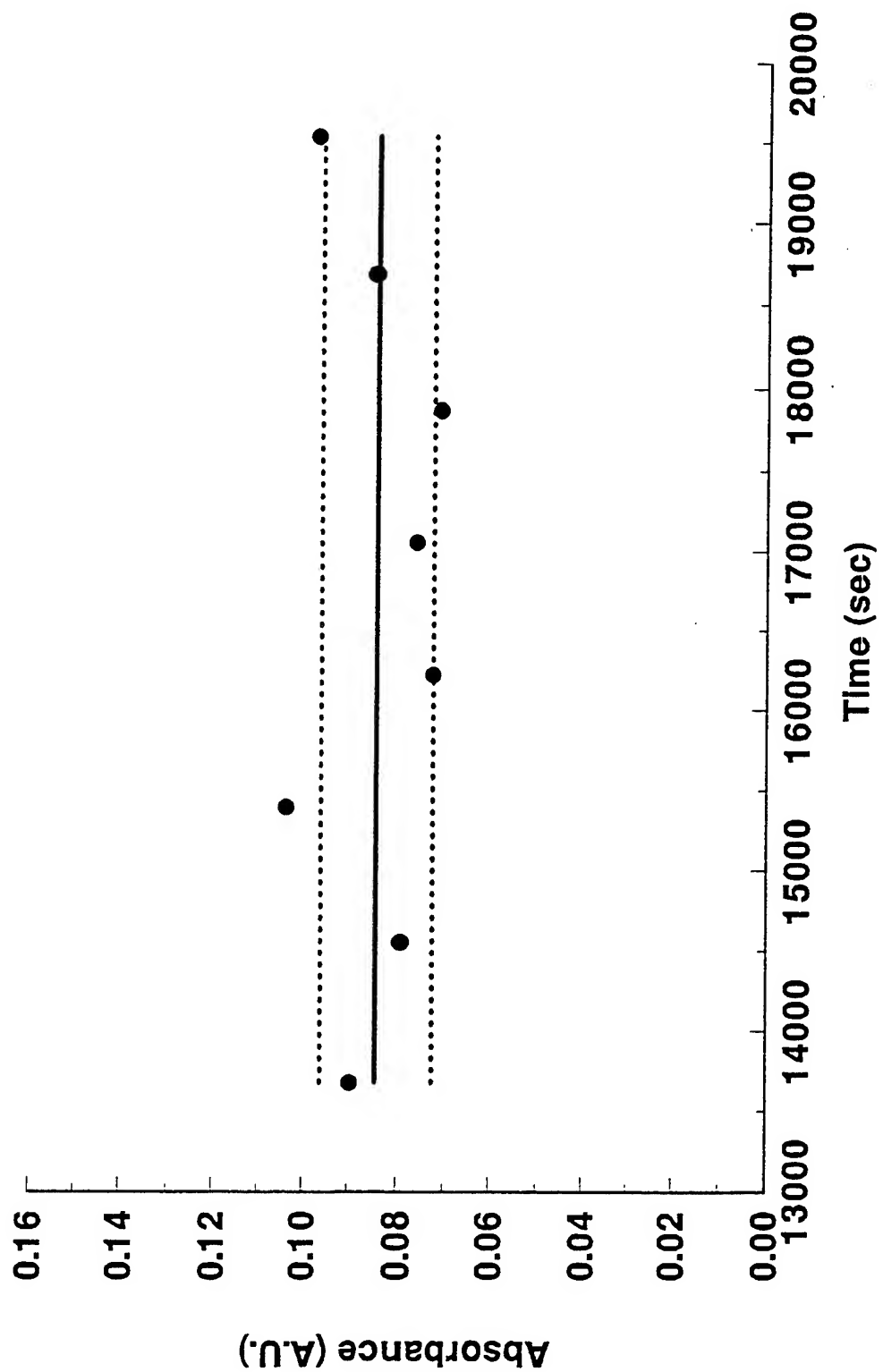




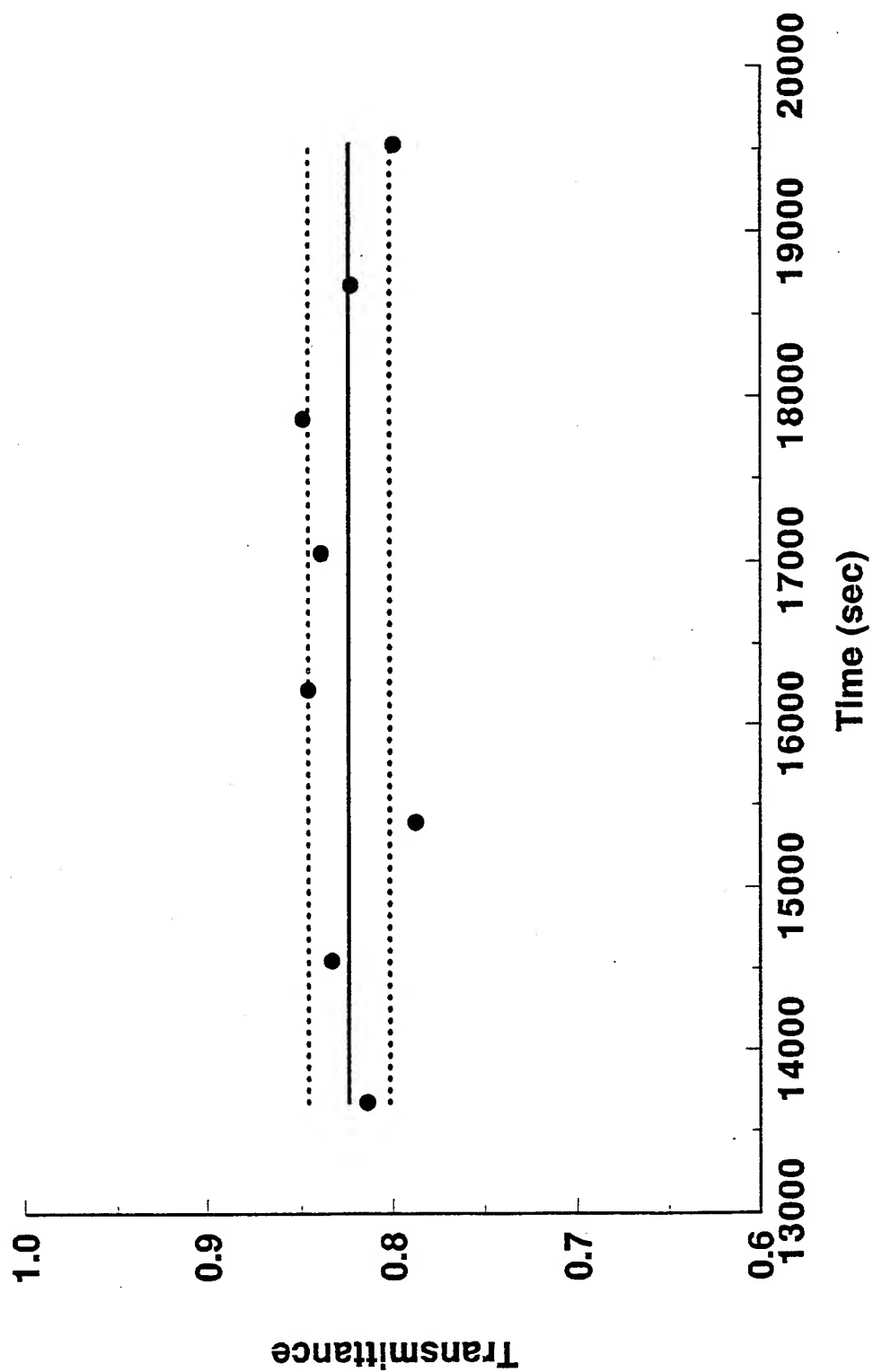
Date: 7 June 2000  
 Source: Stack #3  
 SPS: 4 cm<sup>-1</sup>

Filename	TOD Hr:Mn:Sc	IOT (sec)	1130 cm <sup>-1</sup>		1168.6 cm <sup>-1</sup>	
			A*10 <sup>2</sup> (A.U.)	τ	A*10 <sup>2</sup> (A.U.)	τ
HMA0315	14:23:55	13675	8.947682	0.8138010	10.11634	0.7922030
HMA0316	14:38:31	14551	7.926382	0.8331750	9.011049	0.8126238
HMA0317	14:52:35	15395	10.37047	0.7875812	11.52537	0.7669135
HMA0318	15:06:15	16215	7.261302	0.8460324	8.129915	0.8292794
HMA0319	15:20:10	17050	7.620371	0.8390663	8.599233	0.8203661
HMA0320	15:35:42	17862	7.107546	0.8490330	8.038625	0.8310244
HMA0321	15:47:16	18676	8.477796	0.8226631	9.607492	0.8015398
HMA0322	16:01:30	19530	9.713213	0.7995910	10.77550	0.7802703
AVE			8.428095	0.8238680	9.462941	0.8042776
BESD			1.177538	0.0222030	1.240825	0.02328289

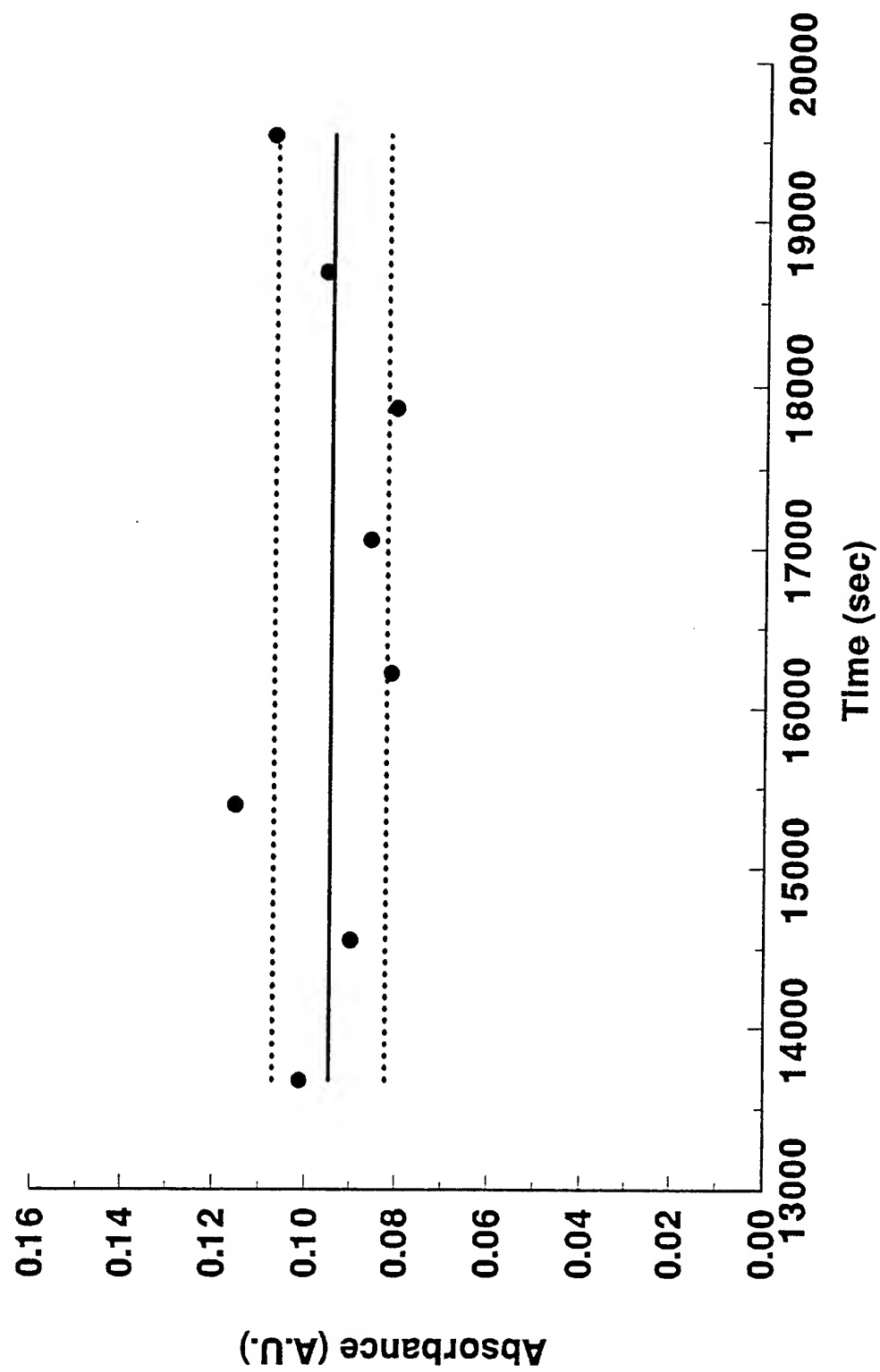
7 June 2000, Stack 3  
1130  $\text{cm}^{-1}$



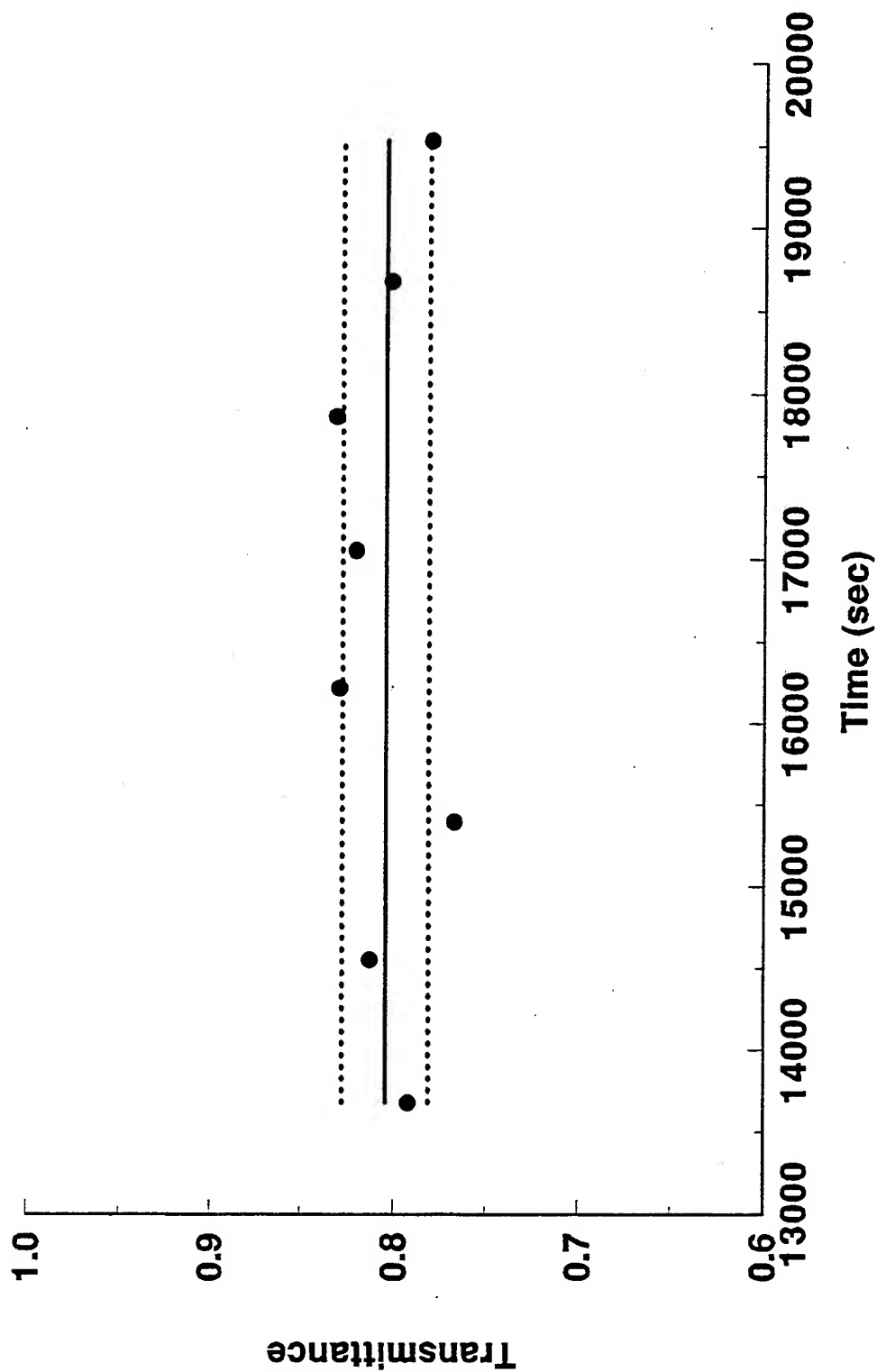
7 June 2000, Stack 3  
1130 cm<sup>-1</sup>



7 June 2000, Stack 3  
1168.6  $\text{cm}^{-1}$



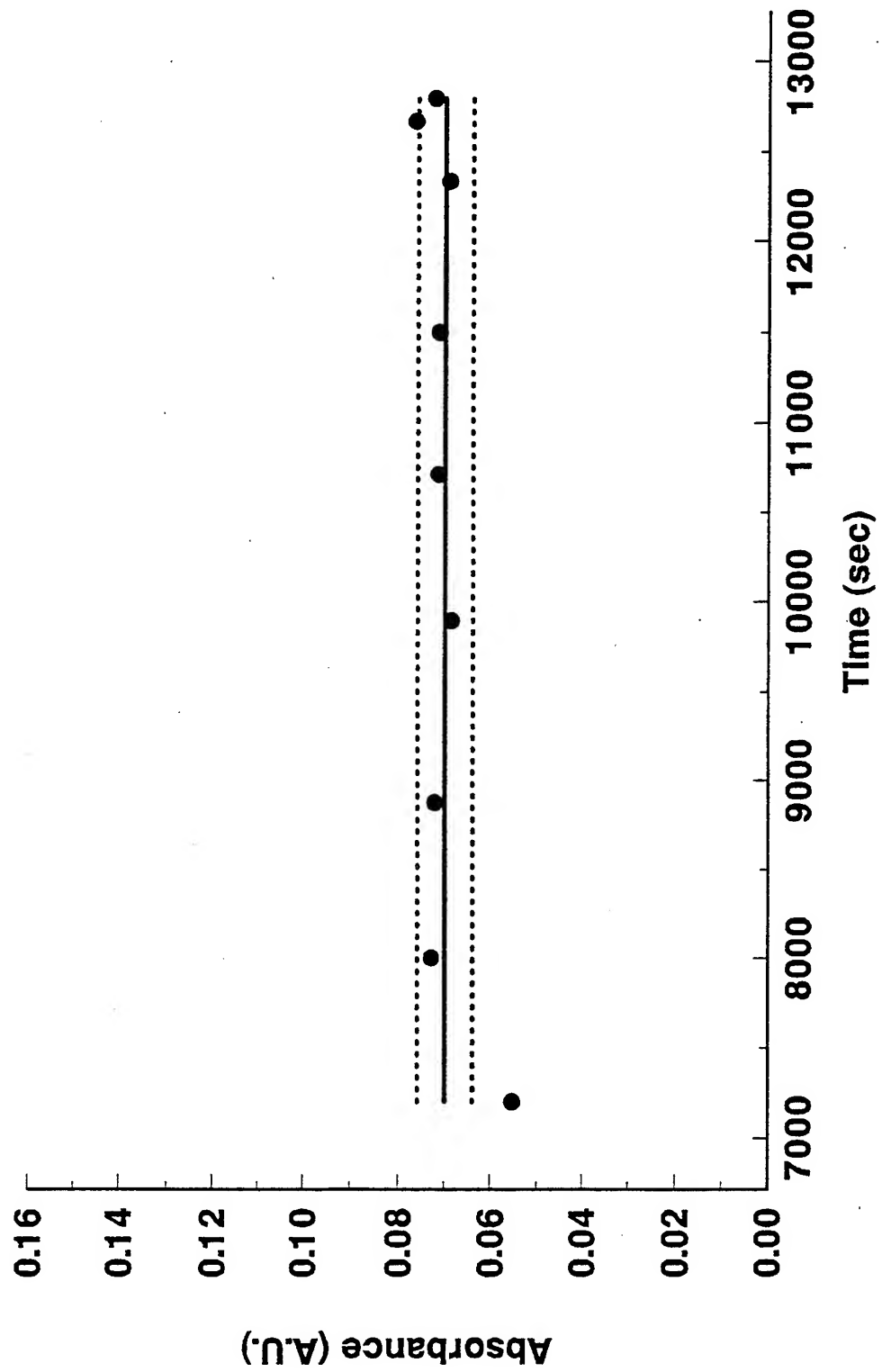
7 June 2000, Stack 3  
1168.6 cm<sup>-1</sup>



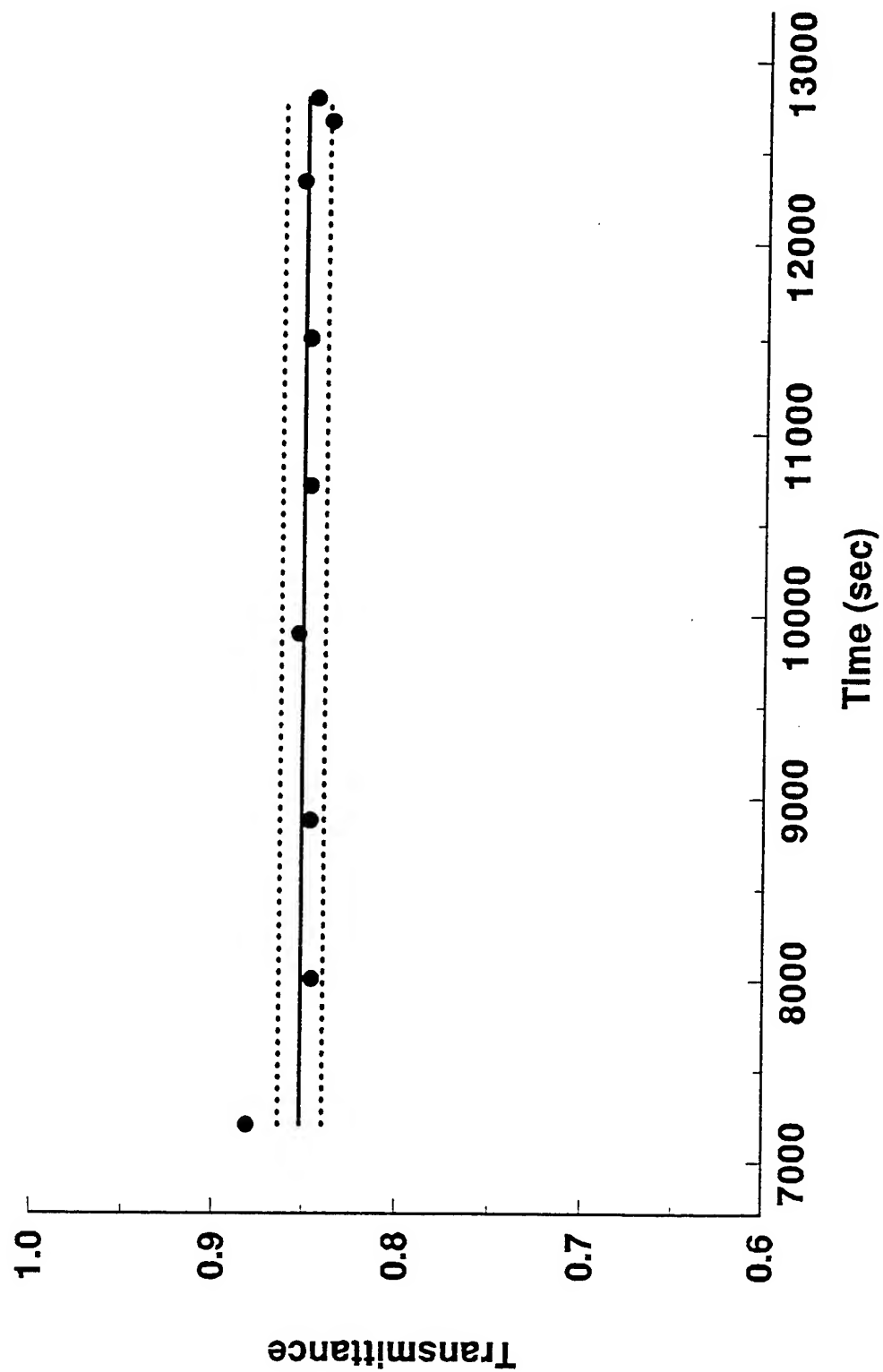
Date: 8 June 2000  
Source: Stack #1  
SPS: 4 cm<sup>-1</sup>

Filename	TOD Hr:Mn: Sc	IOT Sc(sec)	1130.0 cm <sup>-1</sup>		1168.6 cm <sup>-1</sup>	
			A*10 <sup>2</sup> (A.U.)	τ	A*10 <sup>2</sup> (A.U.)	τ
HMA0405	09:04:59	7199	5.525687	0.8805279	6.058847	0.8697842
HMA0406	09:18:24	8004	7.280914	0.8456504	7.796415	0.8356720
HMA0407	09:32:53	8873	7.212831	0.8469772	7.668940	0.8381285
HMA0408	09:49:53	9893	6.852853	0.8540268	7.707292	0.8373887
HMA0409	10:03:27	10707	7.140949	0.8483802	7.833356	0.8349615
HMA0410	10:16:36	11496	7.125411	0.8486838	7.805270	0.8355017
HMA0411	10:30:30	12330	6.905059	0.8530008	7.423790	0.8428729
HMA0412	10:36:04	12664	7.639795	0.8386911	8.325601	0.8255512
	10:38:10	12790	7.221882	0.8468006	7.818918	0.8352391
		AVE	6.989486	0.8514154	7.604270	0.8394556
		BESD	0.593892	0.0117786	0.625690	0.0122408

8 June 2000, Stack 1  
1130 cm<sup>-1</sup>

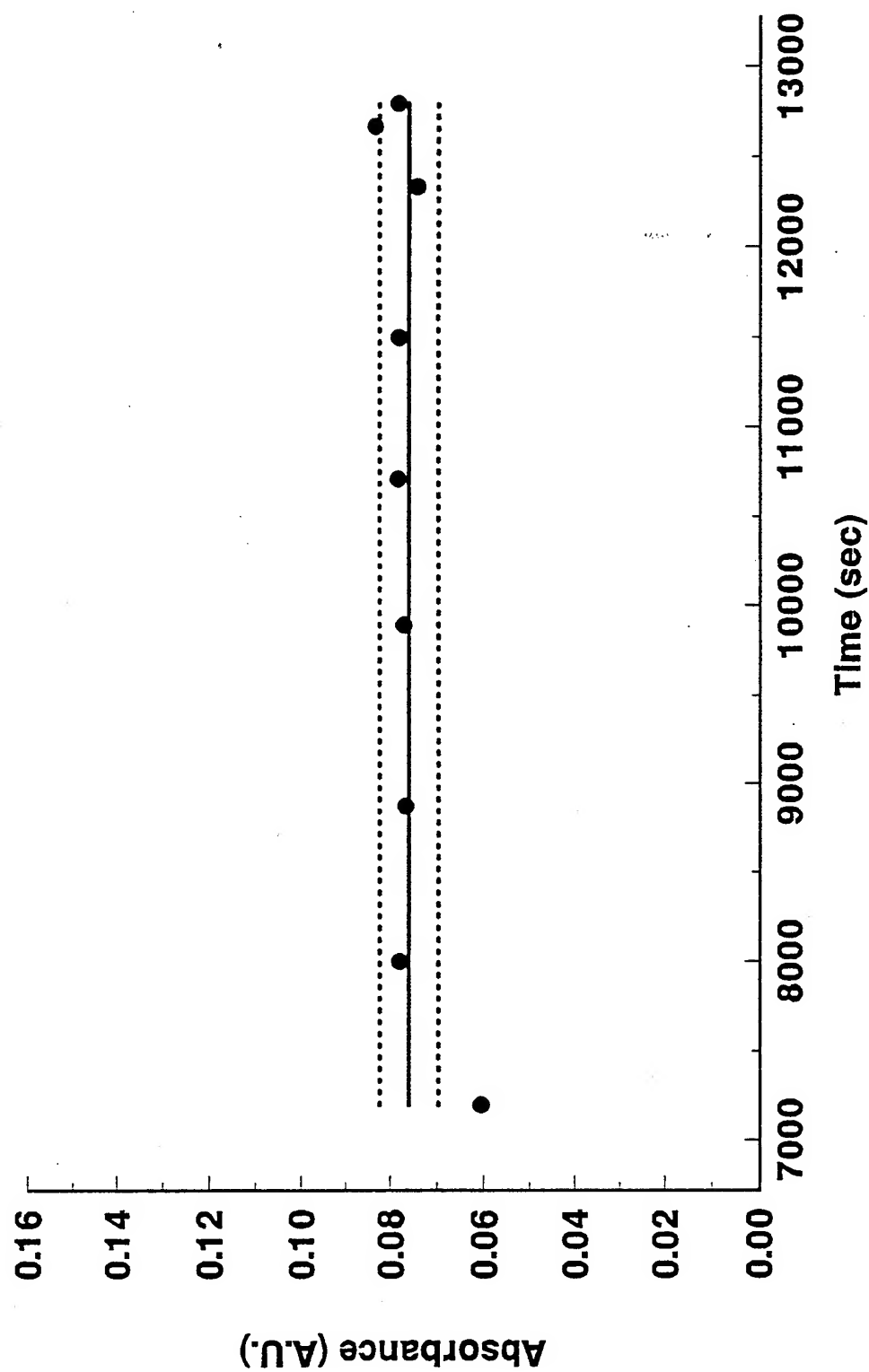


8 June 2000, Stack 1  
1130 cm<sup>-1</sup>

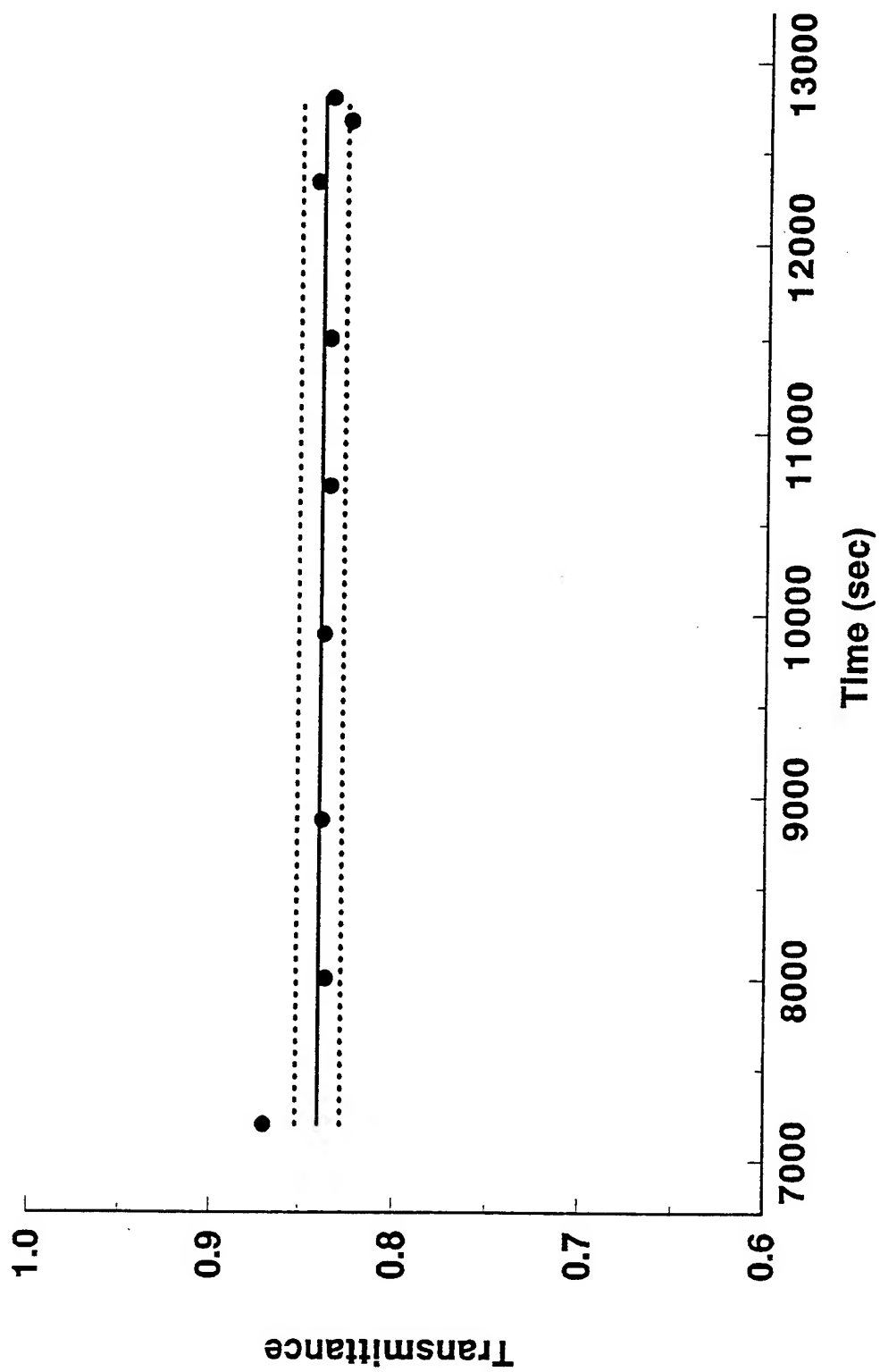




8 June 2000, Stack 1  
1168.6 cm<sup>-1</sup>



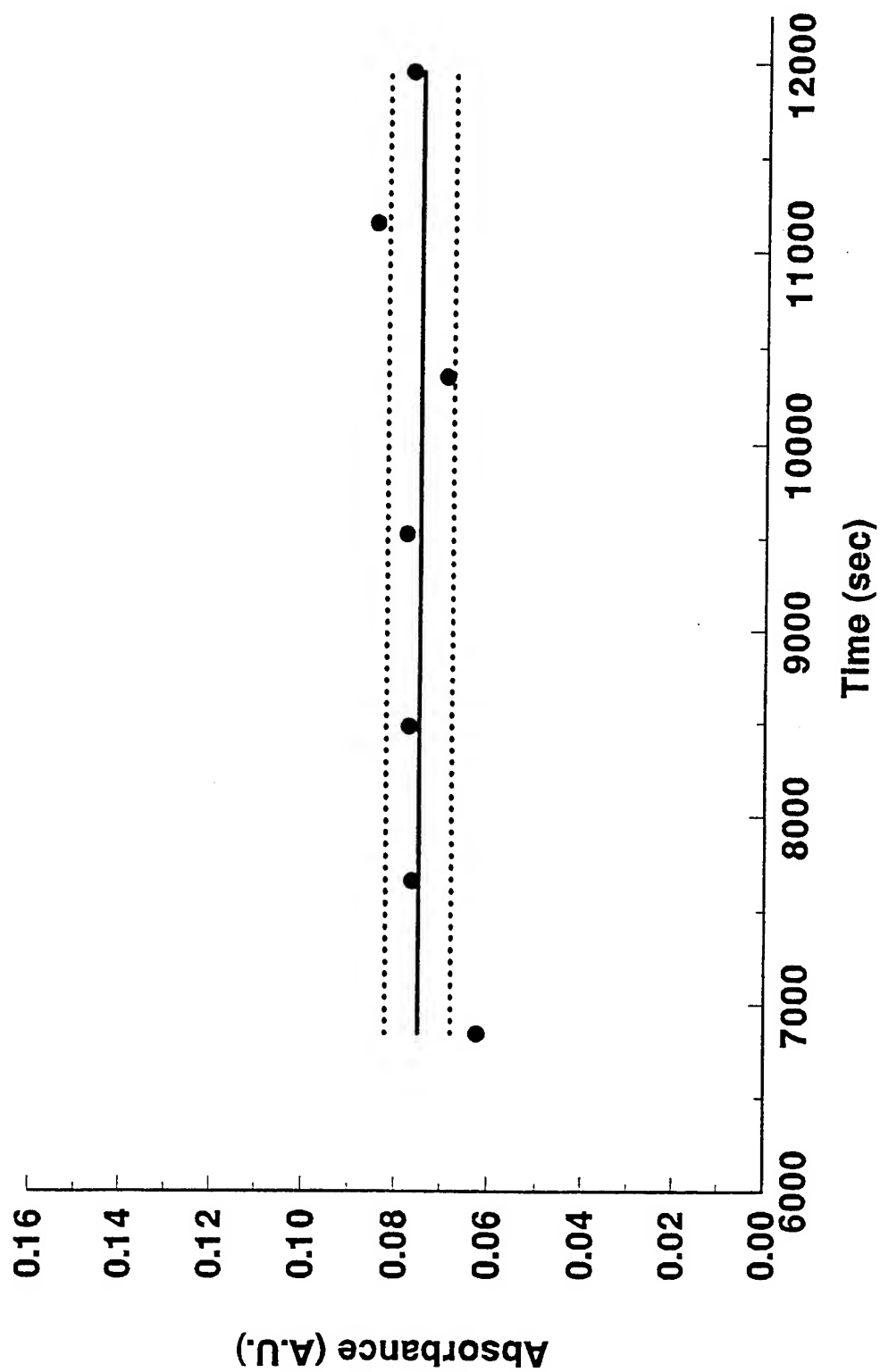
8 June 2000, Stack 1  
1168.6 cm<sup>-1</sup>



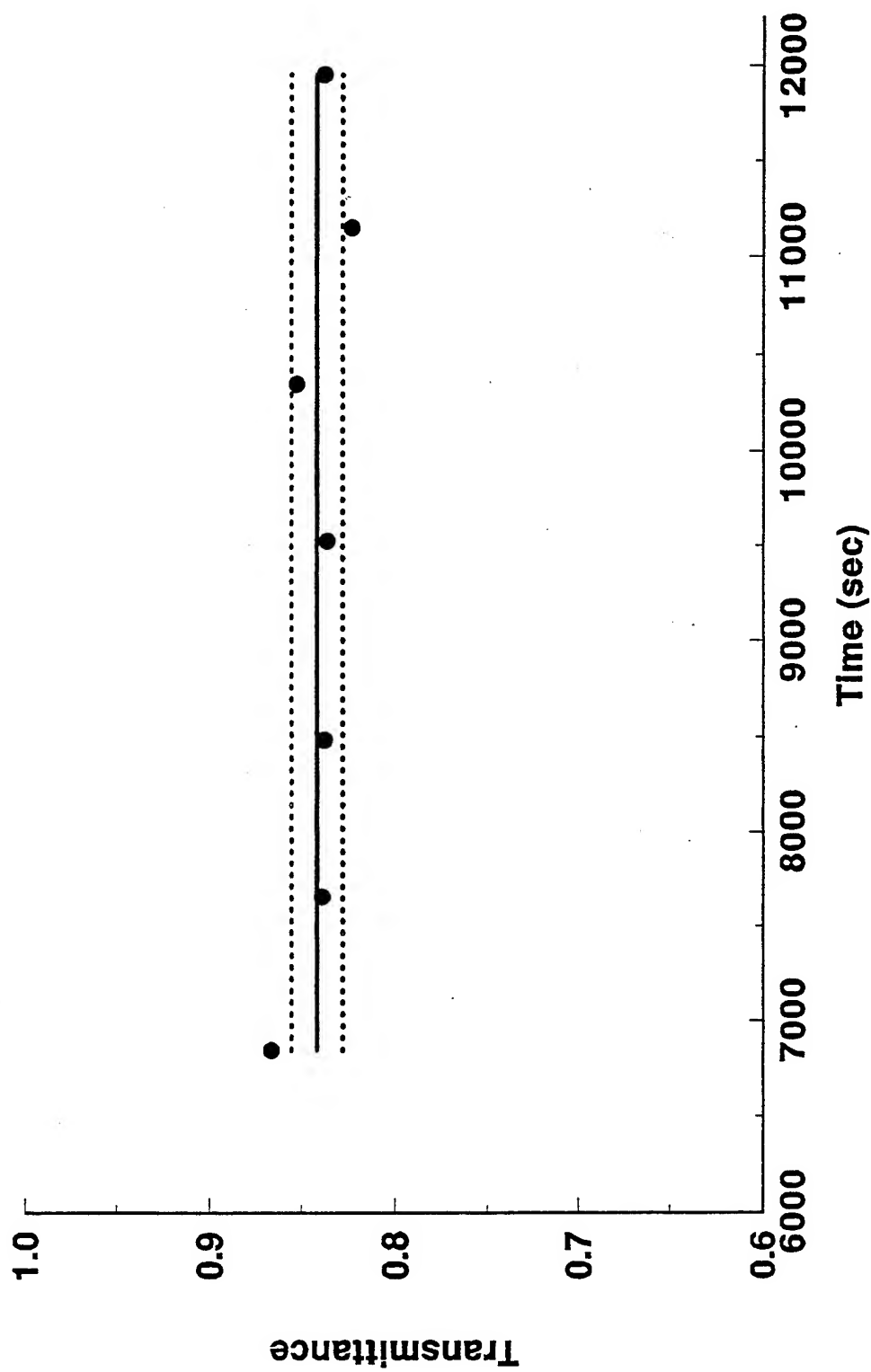
Date: 8 June 2000  
 Source: Stack #3  
 SPS: 4 cm<sup>-1</sup>

Filename	TOD Hr:Mn:Sc	IOT (sec)	1130 cm <sup>-1</sup>		1168.6 cm <sup>-1</sup>	
			A*10 <sup>2</sup> (A.U.)	τ	A*10 <sup>2</sup> (A.U.)	τ
HMA0405	08:59:04	6844	6.225812	0.8664468	7.124365	0.8487042
HMA0406	09:12:35	7655	7.643705	0.8386156	8.498944	0.8222626
HMA0407	09:26:22	8482	7.718250	0.8371774	8.357739	0.8249405
HMA0408	09:43:40	9520	7.791143	0.8357735	8.800535	0.8165724
HMA0409	09:57:26	10346	6.929034	0.8525300	7.847346	0.8346926
HMA0410	10:10:44	11144	8.469641	0.8228177	9.429914	0.8048240
HMA0411	10:24:11	11951	7.714261	0.8372544	8.685352	0.8187409
AVE			7.498835	0.8415165	8.392028	0.8243910
BESD			0.717486	0.0139690	0.735571	0.0140128

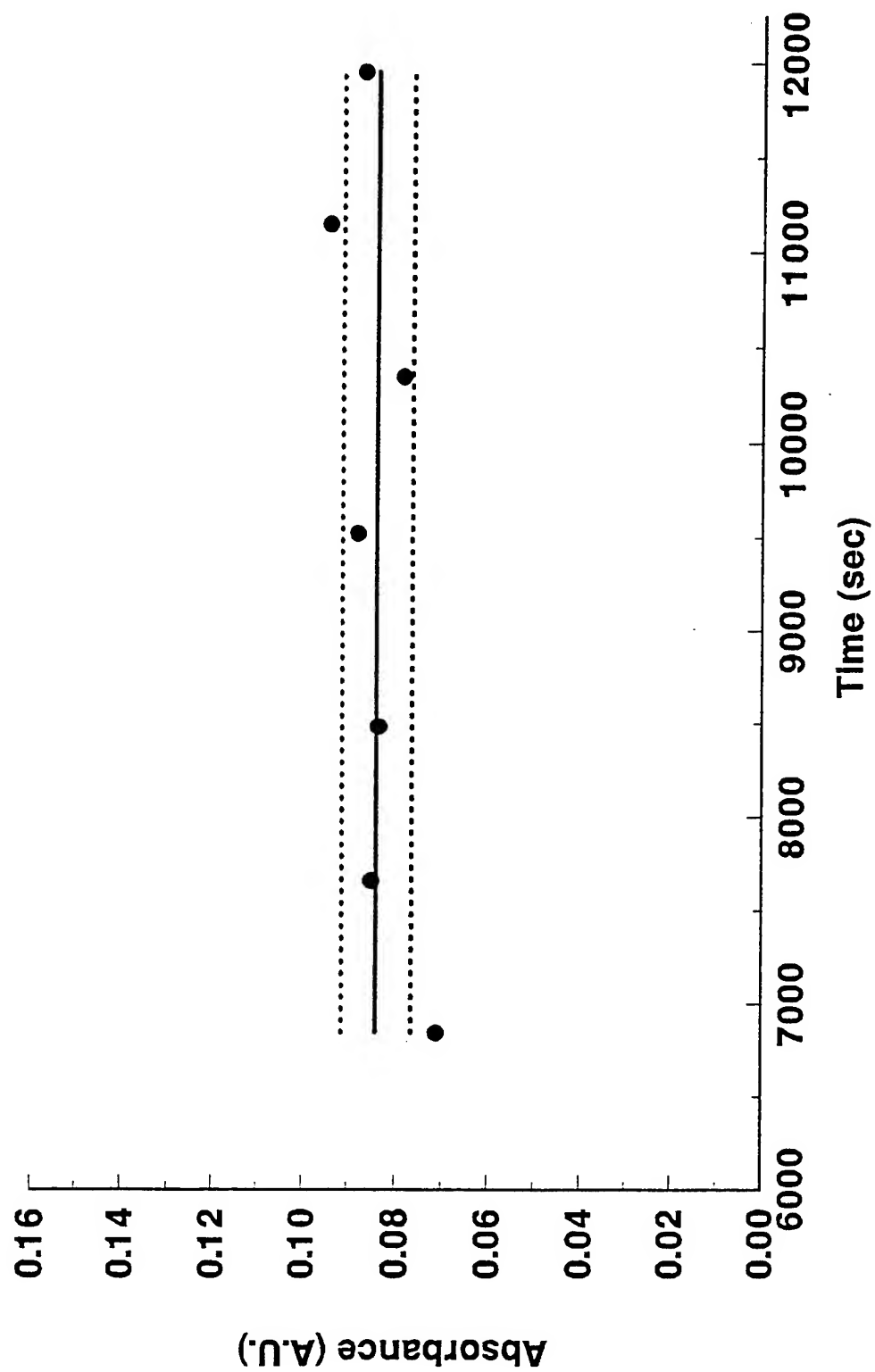
8 June 2000, Stack 3  
1130 cm<sup>-1</sup>



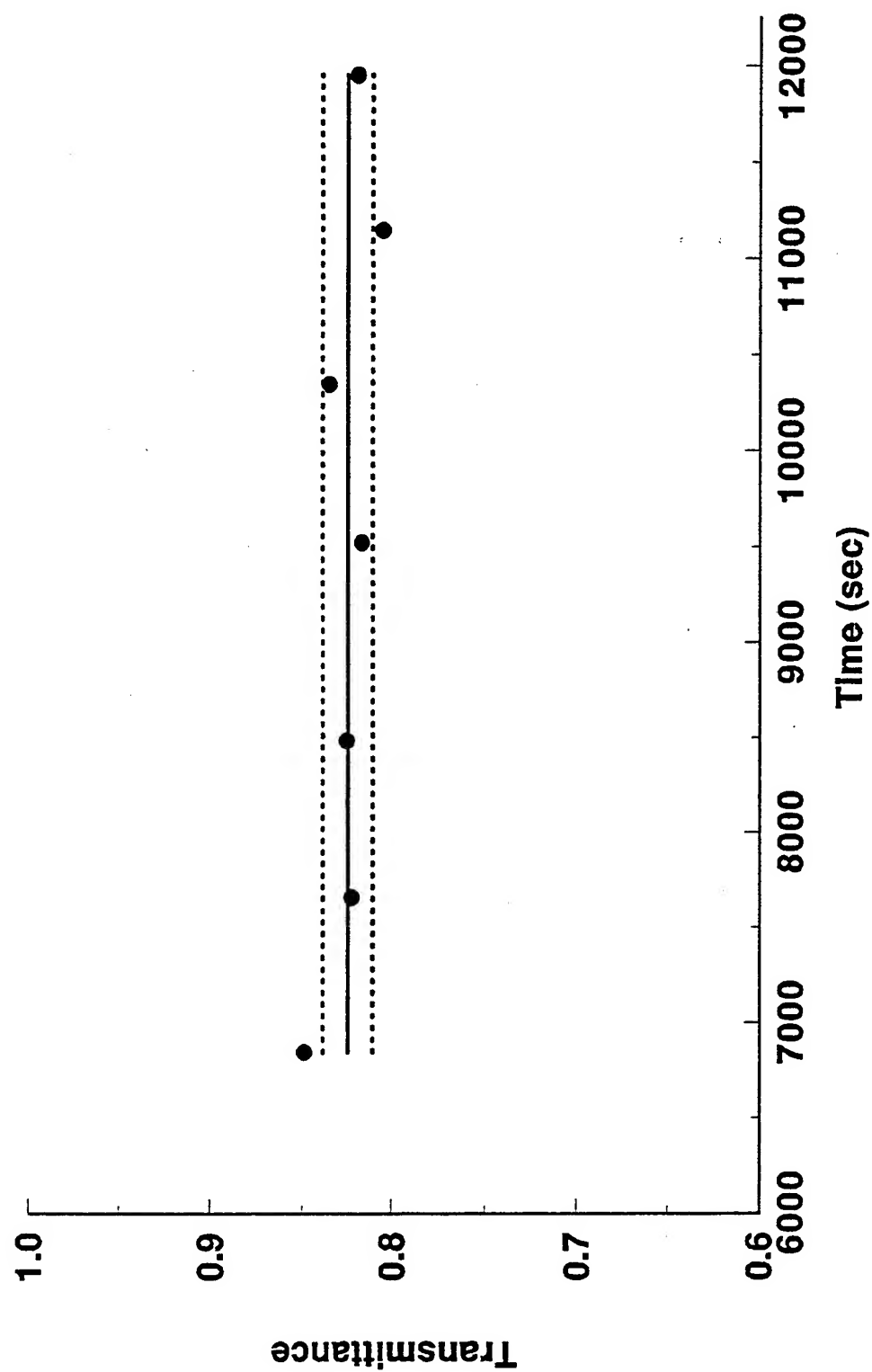
8 June 2000, Stack 3  
1130 cm<sup>-1</sup>



8 June 2000, Stack 3  
1168.6 cm<sup>-1</sup>



8 June 2000, Stack 3  
1168.6 cm<sup>-1</sup>



Dates: 5, 6, & 7 June 2000  
 SPS: 0.5 cm<sup>-1</sup>

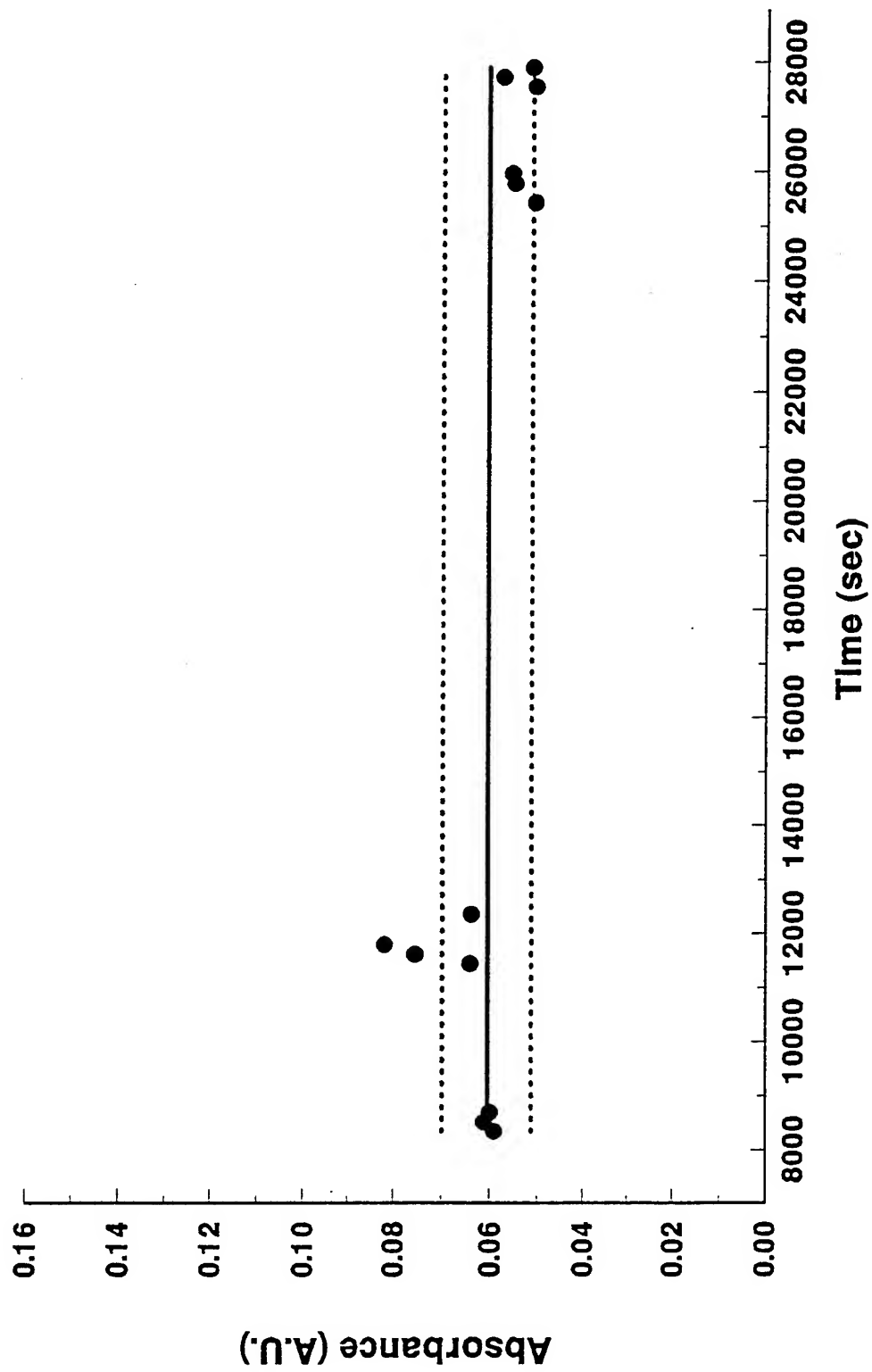
		1132.4 cm <sup>-1</sup>		1163.3 cm <sup>-1</sup>		Stack #
Filename	TOD Hr:Mn:Sc	A*10 <sup>2</sup> (A.U.)	$\tau$	A*10 <sup>2</sup> (A.U.)	$\tau$	
HMA0201	09:13:49	4.417017	0.9032954	4.233364	0.9071234	1
HMA0213	13:19:40	5.955628	0.8718539	5.548480	0.8800659	1
HMA0314	13:42:15	9.521238	0.8031330	9.078048	0.8113711	1
HMA0201	09:10:12	-0.080511	1.0018560	-0.07731	1.0017800	2
HMA0213	13:23:04	-0.373116	1.0086290	-0.44404	1.0102770	2
HMA0314	13:45:29	0.745205	0.9829874	0.702239	0.9839604	2
HMA0101	13:45:34	5.216509	0.8868189	4.936749	0.8925499	3
HMA0201	09:17:33	2.474072	0.9446247	2.386401	0.9465335	3
HMA0213	13:16:22	6.288140	0.8652410	5.929581	0.8723770	3
HMA0314	13:49:17	9.386174	0.8056350	8.908484	0.8145451	3



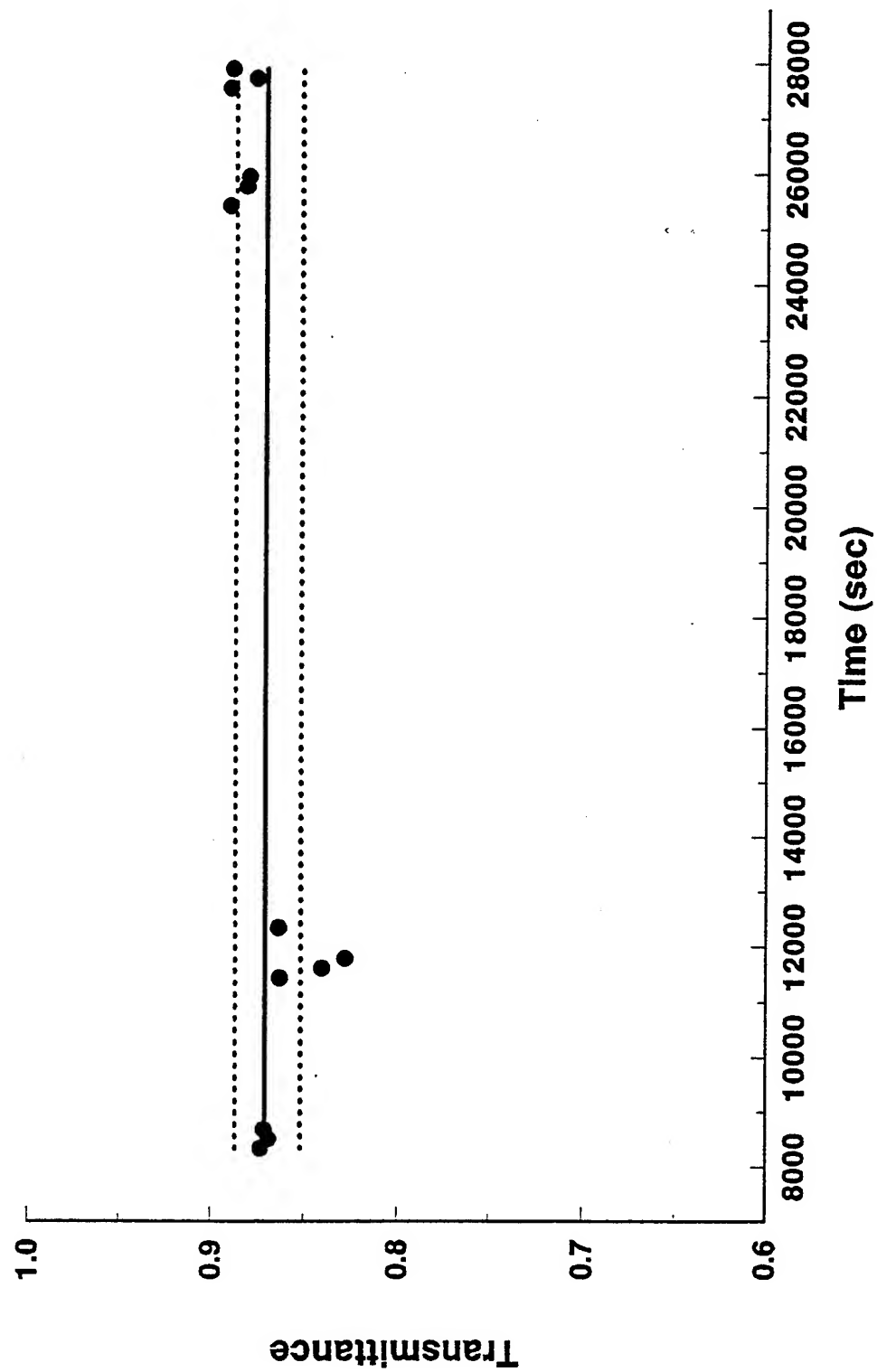
Date: 27 June 2000  
Source: Stack #3  
SPS: 0.5 cm<sup>-1</sup>

			1132.4 cm <sup>-1</sup>		1163.3 cm <sup>-1</sup>	
Filename	TOD Hr:Mn:Sc	IOT (sec)	A*10 <sup>2</sup> (A.U.)	$\tau$	A*10 <sup>2</sup> (A.U.)	$\tau$
LMA0112	09:23:52	8332	5.916736	0.8726531	5.690465	0.8771934
	09:26:46	8506	6.125086	0.8684586	5.902988	0.8729113
	09:29:39	8679	6.005069	0.8708619	5.770843	0.8755714
LMA0114	10:15:39	11439	6.419303	0.8625951	6.302809	0.8649120
	10:18:32	11612	7.544036	0.8405424	7.280287	0.8456626
	10:21:26	11786	8.186960	0.8281908	7.912755	0.8334364
	10:30:50	12350	6.393855	0.8631006	6.115663	0.8686471
LMA0127	14:08:43	25423	5.067282	0.8898712	4.966367	0.8919414
	14:14:30	25770	5.501068	0.8810272	5.376574	0.8835564
	14:17:23	25943	5.561335	0.8798055	5.389431	0.8832949
LMA0129	14:43:55	27535	5.062596	0.8899673	4.766670	0.8960522
	14:46:49	27709	5.754884	0.8758932	5.436725	0.8823335
	14:49:42	27882	5.127878	0.8886305	4.808869	0.8951819
AVE			6.051237	0.8701216	5.824649	0.8744641
BESD			0.935280	0.0185308	0.924118	0.0184250

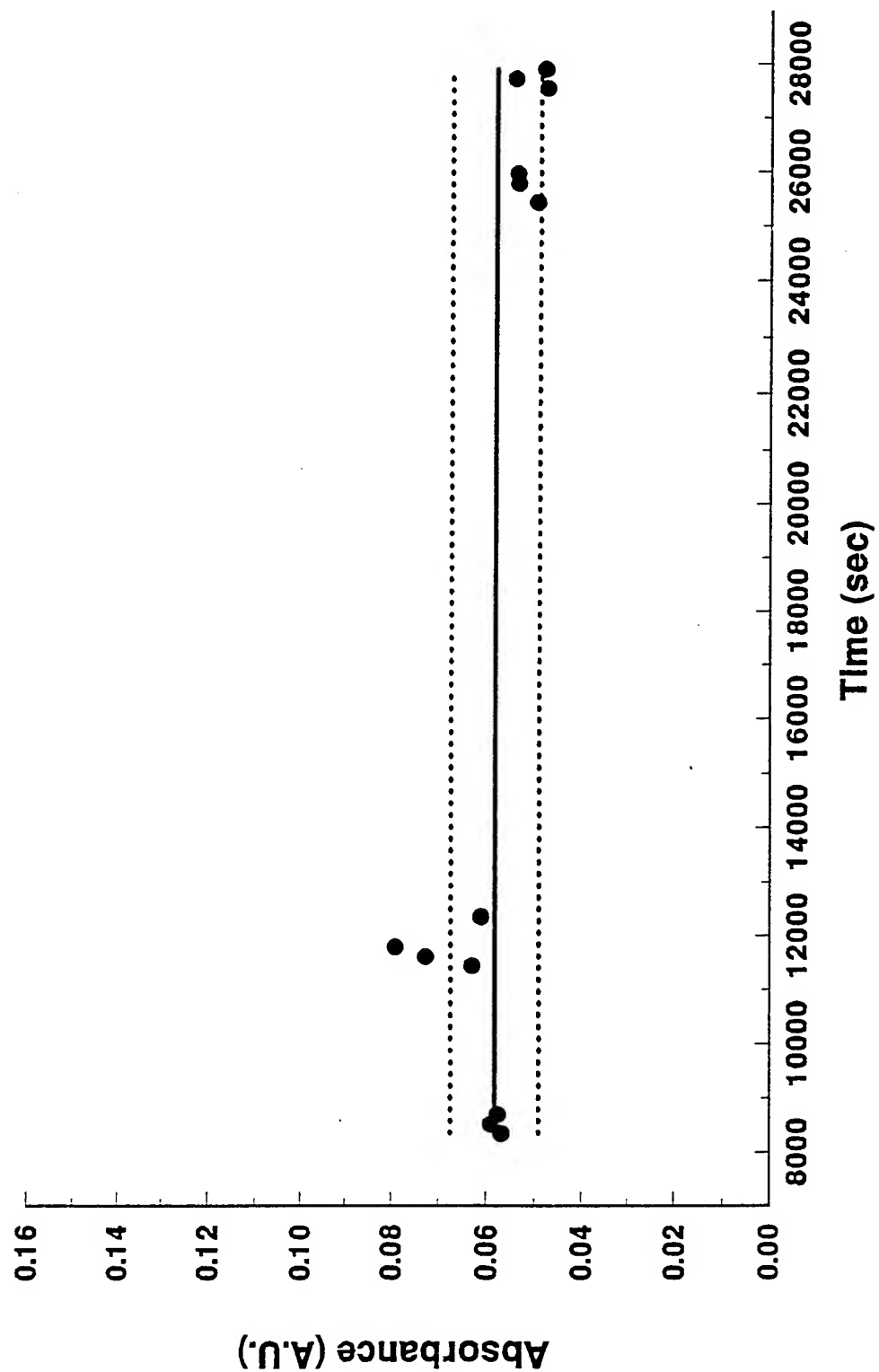
27 June 2000, Stack 3  
1132.4 cm<sup>-1</sup>



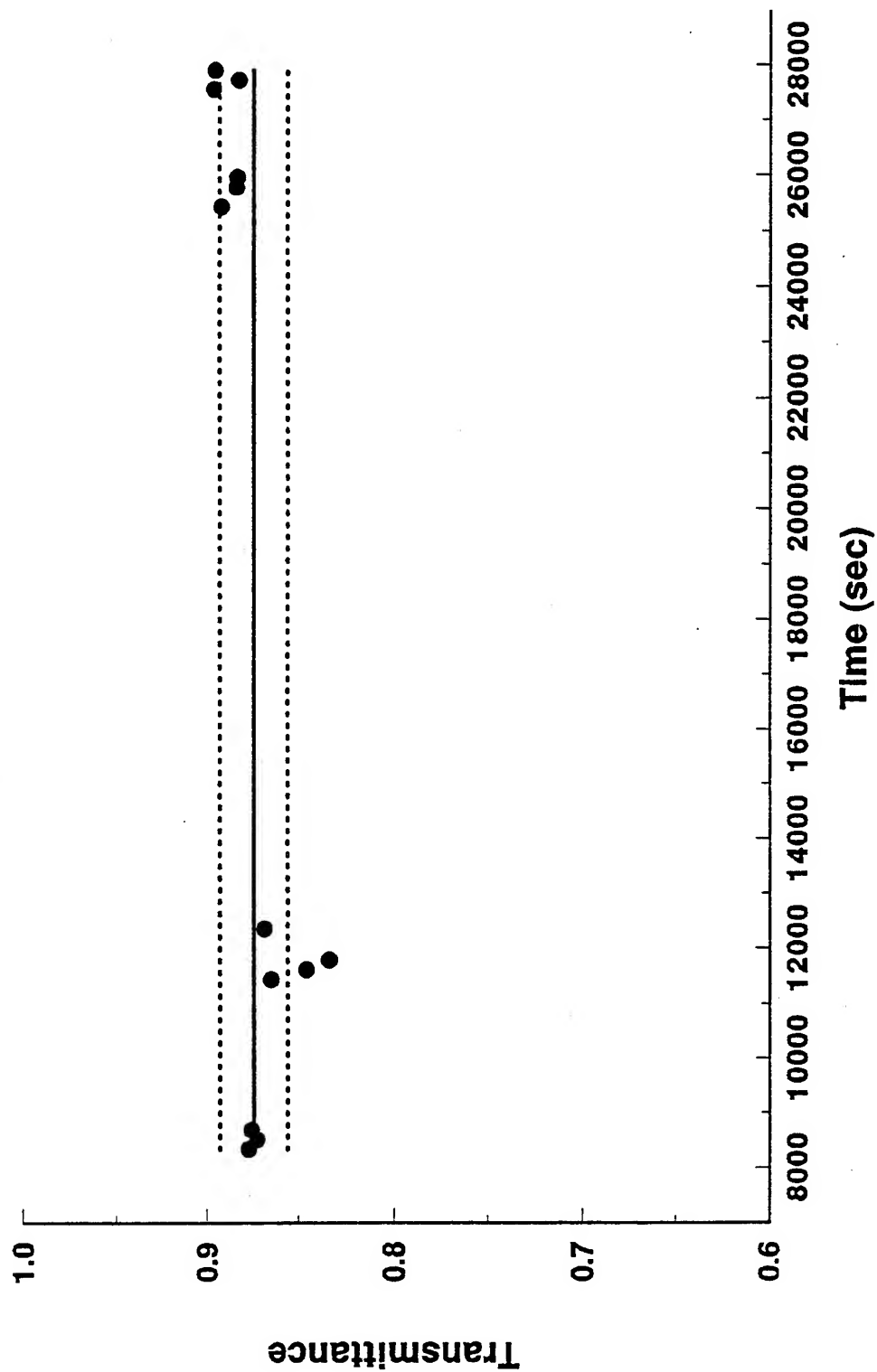
27 June 2000, Stack 3  
1132.4 cm<sup>-1</sup>



27 June 2000, Stack 3  
1163.3 cm<sup>-1</sup>



27 June 2000, Stack 3  
1163.3 cm<sup>-1</sup>



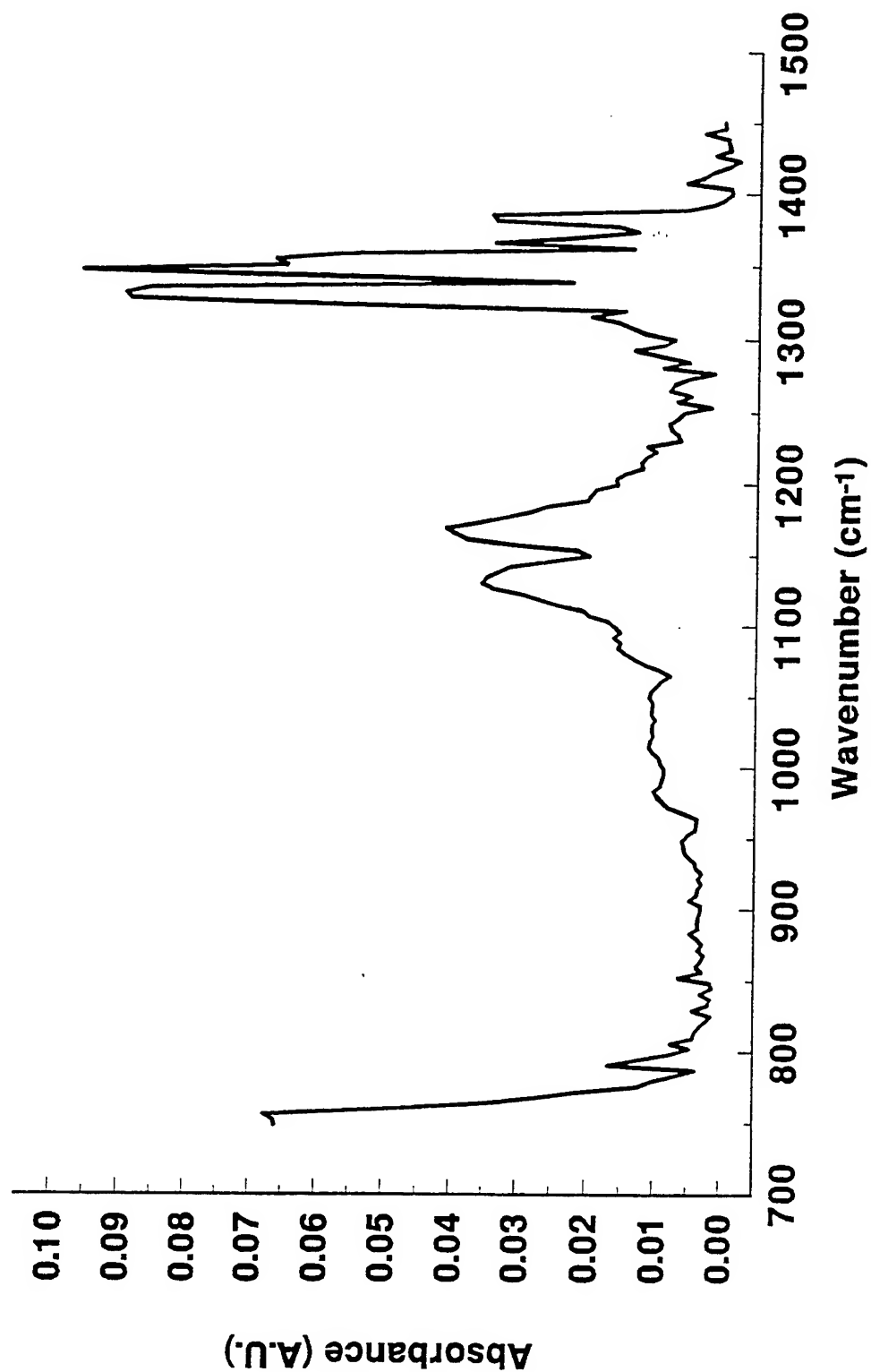
**Blank**

**APPENDIX C**  
**SULFUR DIOXIDE SPECTRA**

Representative absorbance, single-beam blackbody, and single-beam on/off stack spectra are provided in the form of plots and spectral listings. The order of appearance of these files are summarized in the table below.

DATE	TOD	FILENAME	STACK #	SPS (cm <sup>-1</sup> )
5JUN00	15:17:13	HMA0108	3	4
6JUN00	10:51:06	HMA0206	3	4
6JUN00	11:45:29	HMA0210	1	4
7JUN00	15:47:16	HMA0321	3	4
7JUN00	15:11:25	HMA0319	1	4
8JUN00	09:12:35	HMA0406	3	4
8JUN00	10:30:30	HMA0411	1	4
27JUN00	09:29:39	LMA0112	3	0.5

**ABSORBANCE**  
**HMA0108**





Filename: HMA0108

Type:

Absorbance

WN	ABS	WN	ABS
748.245	0.0660851	929.521	0.0037934
752.102	0.0662432	933.378	0.0040479
755.959	0.0675842	937.234	0.0050121
759.816	0.0487543	941.091	0.0056366
763.672	0.0347479	944.948	0.0056673
767.529	0.027035	948.805	0.0058913
771.386	0.0212054	952.662	0.0051631
775.243	0.0123997	956.519	0.0039246
779.1	0.0102436	960.376	0.0037321
782.957	0.006869	964.233	0.0037504
786.814	0.0038771	968.09	0.0058102
790.671	0.0166854	971.947	0.0080107
794.528	0.0121661	975.804	0.0089444
798.385	0.0075424	979.661	0.0097487
802.242	0.0047539	983.518	0.0101814
806.099	0.0073286	987.375	0.0092427
809.956	0.0041067	991.232	0.0089914
813.813	0.0038654	995.088	0.0087198
817.669	0.0031871	998.945	0.0087484
821.526	0.0022622	1002.8	0.0092827
825.383	0.0014866	1006.65	0.0095126
829.24	0.004108	1010.51	0.0104411
833.097	0.0019504	1014.37	0.0110081
836.954	0.0015273	1018.23	0.0108885
840.811	0.0029546	1022.08	0.0103978
844.668	0.001335	1025.94	0.0105742
848.525	0.0015885	1029.8	0.0105632
852.382	0.0062494	1033.65	0.0101185
856.239	0.0028739	1037.51	0.0106001
860.096	0.0036371	1041.37	0.0105528
863.953	0.0030437	1045.22	0.0104402
867.81	0.0025644	1049.08	0.0109625
871.667	0.0033438	1052.94	0.010796
875.524	0.0028428	1056.8	0.0099775
879.38	0.0035388	1060.65	0.0092665
883.237	0.0046269	1064.51	0.0079473
887.094	0.0034805	1068.37	0.0094398
890.951	0.0035337	1072.22	0.0116195
894.808	0.003366	1076.08	0.0132434
898.665	0.0031333	1079.94	0.0146375
902.522	0.0031066	1083.79	0.0157481
906.379	0.004706	1087.65	0.0154203
910.236	0.0036776	1091.51	0.016355
914.093	0.0035079	1095.36	0.0154834
917.95	0.0030092	1099.22	0.0163484
921.807	0.0034454	1103.08	0.017291
925.664	0.0029597	1106.94	0.0198574

Filename: HMA0108

Type: Absorbance

WN	ABS	WN	ABS
1110.79	0.0209459	1292.07	0.0134812
1114.65	0.0245278	1295.93	0.0091465
1118.51	0.0272437	1299.78	0.0076835
1122.36	0.0297791	1303.64	0.0119068
1126.22	0.0339851	1307.5	0.0140762
1130.08	0.0355729	1311.35	0.0161312
1133.93	0.0349649	1315.21	0.0200086
1137.79	0.0332938	1319.07	0.0152145
1141.65	0.031496	1322.92	0.0554791
1145.5	0.0253998	1326.78	0.0886098
1149.36	0.0201234	1330.64	0.0894624
1153.22	0.0219517	1334.49	0.0856675
1157.08	0.030793	1338.35	0.0227823
1160.93	0.0380106	1342.21	0.0563747
1164.79	0.0397011	1346.07	0.0957222
1168.65	0.0410525	1349.92	0.0651263
1172.5	0.036223	1353.78	0.0666749
1176.36	0.0321796	1357.64	0.056678
1180.22	0.0284706	1361.49	0.0138727
1184.07	0.0262081	1365.35	0.0339381
1187.93	0.0203682	1369.21	0.0217214
1191.79	0.0198453	1373.06	0.0132019
1195.64	0.0191229	1376.92	0.0162511
1199.5	0.0160816	1380.78	0.0337563
1203.36	0.0161637	1384.63	0.0344063
1207.22	0.0148295	1388.49	0.0059575
1211.07	0.0123377	1392.35	0.001983
1214.93	0.0124389	1396.21	0.0002064
1218.79	0.0118494	1400.06	-0.000836
1222.64	0.0103695	1403.92	-0.000709
1226.5	0.01157	1407.78	0.0060364
1230.36	0.0067661	1411.63	0.0034494
1234.21	0.0070611	1415.49	0.0019512
1238.07	0.0080351	1419.35	-0.000385
1241.93	0.00838	1423.2	-0.00198
1245.79	0.0069966	1427.06	0.0015864
1249.64	0.0061738	1430.92	-0.000552
1253.5	0.0021174	1434.77	-0.000284
1257.36	0.0070592	1438.63	-0.00019
1261.21	0.005209	1442.49	0.0032425
1265.07	0.008164	1446.35	0.0002703
1268.93	0.007662	1450.2	0.0003098
1272.78	0.0056758		
1276.64	0.0016717		
1280.5	0.0092105		
1284.35	0.0055275		
1288.21	0.0096165		

Filename: HMA0108  
Subfile: 0159

Type: 40 deg C BB

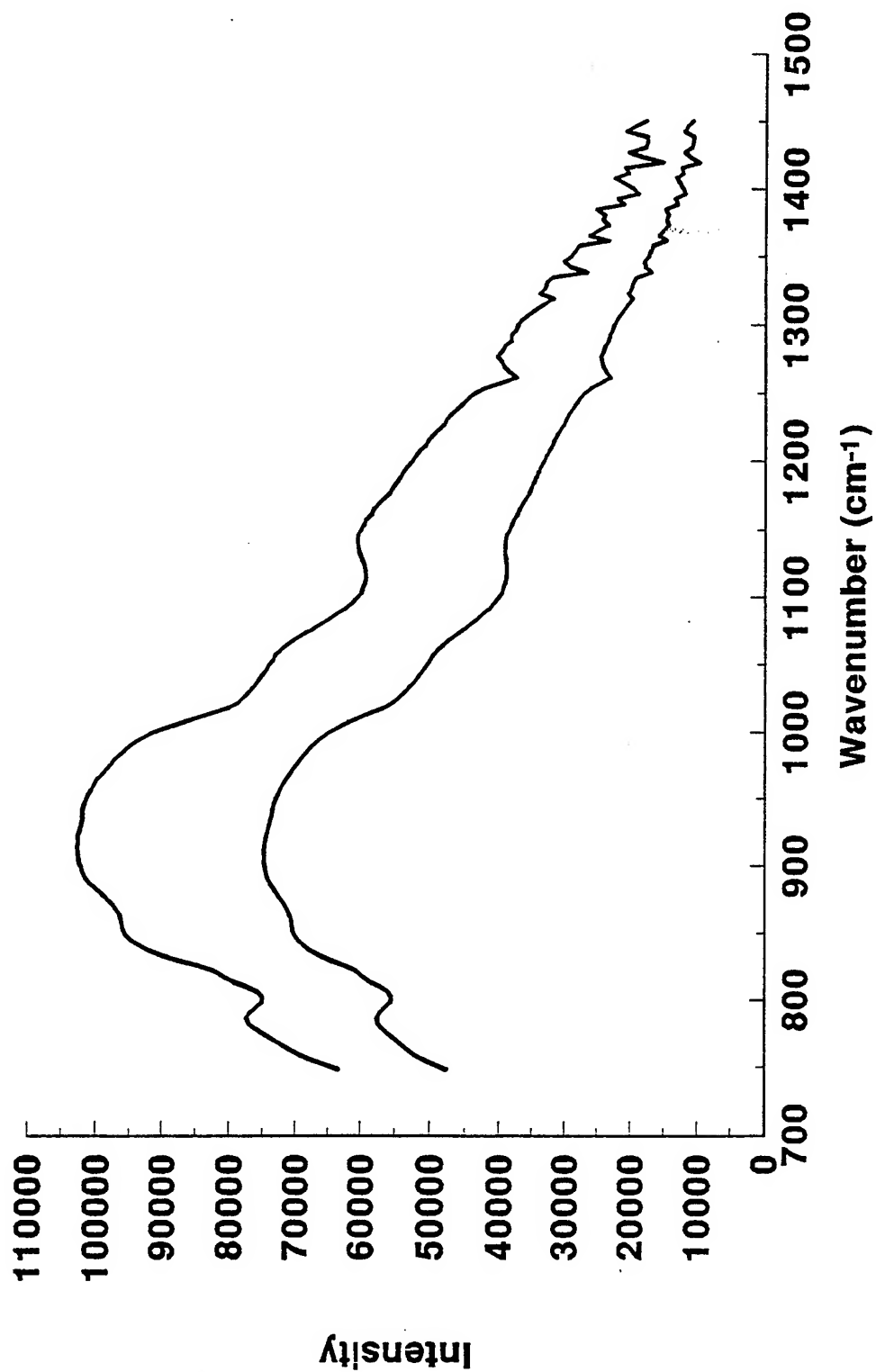
WN	INT	WN	INT
748.245	47727.3	929.521	74004.1
752.102	49526	933.378	73817.1
755.959	51064.2	937.234	73625.5
759.816	52355.9	941.091	73501.5
763.672	53323.6	944.948	73284.5
767.529	54153.6	948.805	73007.4
771.386	55100.3	952.662	72671.9
775.243	56040.8	956.519	72270.3
779.1	56907.2	960.376	71889.4
782.957	57457.1	964.233	71409.7
786.814	57517.5	968.09	70831.1
790.671	57050.2	971.947	70339.3
794.528	56335.5	975.804	69724.8
798.385	55580	979.661	69205.9
802.242	55494.6	983.518	68444.5
806.099	55972.2	987.375	67823.6
809.956	57205.6	991.232	67044.4
813.813	58631	995.088	66083.7
817.669	59703.1	998.945	64991.7
821.526	60664	1002.8	63617
825.383	62467.4	1006.65	62007
829.24	64510.7	1010.51	60172.9
833.097	66309.9	1014.37	58247.2
836.954	67770.4	1018.23	56467.4
840.811	68755.7	1022.08	55209.9
844.668	69603.8	1025.94	54335.1
848.525	70203.1	1029.8	53609.5
852.382	70425.9	1033.65	52902.7
856.239	70580.2	1037.51	52202.8
860.096	70690.2	1041.37	51615.2
863.953	70930.6	1045.22	51040.9
867.81	71357.6	1049.08	50558.4
871.667	71745.6	1052.94	50020
875.524	72335.7	1056.8	49571.2
879.38	72846.9	1060.65	48916.2
883.237	73412.5	1064.51	48148.9
887.094	73896.5	1068.37	47283.1
890.951	74288.9	1072.22	46302.4
894.808	74473.9	1076.08	45226.8
898.665	74615.6	1079.94	44327.8
902.522	74767.7	1083.79	43338.3
906.379	74724.6	1087.65	42425.4
910.236	74773.6	1091.51	41499.4
914.093	74691.3	1095.36	40767.7
917.95	74548	1099.22	40151.9
921.807	74432.4	1103.08	39662.7
925.664	74224.5	1106.94	39383.4

Filename: HMA0108  
Subfile: 0159

Type: 40 deg C BB

WN	INT	WN	INT
1110.79	39089.8	1292.07	23277.6
1114.65	38958.4	1295.93	22863.6
1118.51	38881.8	1299.78	22588.2
1122.36	38879.3	1303.64	22181.9
1126.22	38965.2	1307.5	21635.6
1130.08	39082.1	1311.35	21052.5
1133.93	39144.6	1315.21	20426.2
1137.79	39129.3	1319.07	19807.9
1141.65	39035.4	1322.92	20381
1145.5	38868.3	1326.78	19961.9
1149.36	38485.9	1330.64	19726.2
1153.22	38121.2	1334.49	19230.6
1157.08	37772	1338.35	17060.6
1160.93	37255.8	1342.21	17870.8
1164.79	36922	1346.07	18006.1
1168.65	36483.6	1349.92	17462.6
1172.5	35973	1353.78	17113.3
1176.36	35469.6	1357.64	16727.6
1180.22	35137.9	1361.49	14828.2
1184.07	34745.6	1365.35	15814.5
1187.93	34380.5	1369.21	15217.6
1191.79	34054.9	1373.06	14501.6
1195.64	33665.3	1376.92	14751.1
1199.5	33222.1	1380.78	14518.2
1203.36	32850.6	1384.63	14858.5
1207.22	32463.9	1388.49	13183.9
1211.07	31970.5	1392.35	13406.5
1214.93	31600.1	1396.21	12099.6
1218.79	31159.3	1400.06	12290.6
1222.64	30687.7	1403.92	12772.4
1226.5	30181.5	1407.78	13227.2
1230.36	29817.1	1411.63	12340.8
1234.21	29406.7	1415.49	12448.9
1238.07	28841.3	1419.35	9977.53
1241.93	28310.5	1423.2	11266.6
1245.79	27732	1427.06	12001.8
1249.64	27074.6	1430.92	11046.5
1253.5	26021.6	1434.77	10856.6
1257.36	24462.7	1438.63	10826.3
1261.21	23142.1	1442.49	12099.1
1265.07	23629.7	1446.35	11649.7
1268.93	24195.8	1450.2	10890.5
1272.78	24363.2		
1276.64	24529.1		
1280.5	24221.6		
1284.35	23946.4		
1288.21	23454.6		

**Blackbody Response at 40°C and 80°C**  
**HMA0108**



Filename: HMA0108  
Subfile: 0001

Type: 80 deg C BB

WN	INT	WN	INT
748.245	63346.3	929.521	102107
752.102	65689.6	933.378	101939
755.959	67805.7	937.234	101789
759.816	69581.9	941.091	101777
763.672	71048	944.948	101614
767.529	72273.8	948.805	101374
771.386	73640.2	952.662	101006
775.243	75010.8	956.519	100596
779.1	76287.8	960.376	100214
782.957	77071.3	964.233	99732.7
786.814	77324	968.09	99016.7
790.671	76851.9	971.947	98437.4
794.528	75940.5	975.804	97734.4
798.385	75058.9	979.661	97128.7
802.242	75072.4	983.518	96196.4
806.099	75843.9	987.375	95362.2
809.956	77484.3	991.232	94405.5
813.813	79403.1	995.088	93088.1
817.669	80885.5	998.945	91663.2
821.526	82145.8	1002.8	89655.1
825.383	84589.8	1006.65	87313.2
829.24	87394.6	1010.51	84766.4
833.097	89878.6	1014.37	82181.2
836.954	91977.1	1018.23	79981.4
840.811	93386.8	1022.08	78584.1
844.668	94705.5	1025.94	77747.6
848.525	95540	1029.8	77062.7
852.382	95868.5	1033.65	76341.7
856.239	96092.9	1037.51	75690.4
860.096	96188.4	1041.37	75160.2
863.953	96470.2	1045.22	74567.5
867.81	96989.8	1049.08	74099.5
871.667	97544.4	1052.94	73462.4
875.524	98366.6	1056.8	73040.2
879.38	99170.9	1060.65	72246
883.237	99989.7	1064.51	71282.3
887.094	100790	1068.37	70160.8
890.951	101396	1072.22	68837.5
894.808	101778	1076.08	67341.3
898.665	102038	1079.94	66156.4
902.522	102316	1083.79	64798.5
906.379	102392	1087.65	63573.6
910.236	102516	1091.51	62276.2
914.093	102598	1095.36	61329.5
917.95	102476	1099.22	60538.2
921.807	102496	1103.08	59861.9
925.664	102267	1106.94	59589.7

Filename: HMA0108  
Subfile: 0001

Type: 80 deg C BB

WN	INT	WN	INT
1110.79	59264.5	1292.07	38227.9
1114.65	59170.4	1295.93	37529
1118.51	59214.9	1299.78	37237.3
1122.36	59362.1	1303.64	36608
1126.22	59602.9	1307.5	35590.8
1130.08	59944.5	1311.35	34456.3
1133.93	60212.2	1315.21	33209.2
1137.79	60330.3	1319.07	31865.1
1141.65	60433.8	1322.92	33808.3
1145.5	60370.8	1326.78	33072.8
1149.36	59933.5	1330.64	32835.2
1153.22	59495.6	1334.49	31965.7
1157.08	59118.3	1338.35	26726.5
1160.93	58389.8	1342.21	29237.5
1164.79	57993.3	1346.07	30112.9
1168.65	57338.6	1349.92	29058.1
1172.5	56492.9	1353.78	28545.8
1176.36	55757.5	1357.64	27930.9
1180.22	55341.2	1361.49	23503
1184.07	54789	1365.35	26217.7
1187.93	54202	1369.21	24933.8
1191.79	53816.4	1373.06	23459.9
1195.64	53253.6	1376.92	24246.7
1199.5	52544.4	1380.78	24048.3
1203.36	52050.1	1384.63	25144.3
1207.22	51534	1388.49	21228.2
1211.07	50693.5	1392.35	22056.5
1214.93	50235.6	1396.21	18994.1
1218.79	49566.5	1400.06	19743
1222.64	48893.3	1403.92	21050.8
1226.5	48062.1	1407.78	22454.1
1230.36	47654.1	1411.63	20474
1234.21	47060.7	1415.49	20883.6
1238.07	46213.7	1419.35	15390.1
1241.93	45410.7	1423.2	18113.8
1245.79	44596	1427.06	20256.5
1249.64	43685.4	1430.92	17873.8
1253.5	42088.2	1434.77	17691.2
1257.36	39695.8	1438.63	17717.7
1261.21	37442.7	1442.49	20696.5
1265.07	38475.5	1446.35	19452.1
1268.93	39295.9	1450.2	17857.3
1272.78	39682.9		
1276.64	40296.6		
1280.5	39680.7		
1284.35	39212		
1288.21	38216.1		

Filename: HMA0108  
Subfile: 0317

Type: OFF STACK

WN	INT	WN	INT
748.245	36683.4	929.521	53499.6
752.102	38047.5	933.378	53257
755.959	38976.2	937.234	53073
759.816	39447.8	941.091	53029.6
763.672	39972.3	944.948	52845
767.529	40803.2	948.805	52768.5
771.386	41326.1	952.662	52307.8
775.243	42340.7	956.519	51998.3
779.1	42767.4	960.376	51561.9
782.957	43179.4	964.233	51169.3
786.814	42835.1	968.09	50813.9
790.671	42624.4	971.947	50489.4
794.528	42548	975.804	50043.6
798.385	42184.9	979.661	49445.3
802.242	41601.7	983.518	48801.4
806.099	41819.1	987.375	48267.2
809.956	42512.6	991.232	47673.9
813.813	43663.7	995.088	46931.6
817.669	44040.8	998.945	46165
821.526	44806.3	1002.8	45117.8
825.383	46195.1	1006.65	43899.4
829.24	47601.3	1010.51	42700.9
833.097	48831.5	1014.37	41290.4
836.954	49815.8	1018.23	39959.3
840.811	50851.9	1022.08	38923.6
844.668	51131.3	1025.94	38285.3
848.525	51791.1	1029.8	37903.3
852.382	52591	1033.65	37191.6
856.239	52001.6	1037.51	36659.1
860.096	51900.8	1041.37	36216
863.953	52184.5	1045.22	35685.8
867.81	52316.8	1049.08	35459.8
871.667	52809.9	1052.94	35090.7
875.524	52901.8	1056.8	34666.8
879.38	53501.3	1060.65	34205.5
883.237	53793.3	1064.51	33687.9
887.094	54247.9	1068.37	32925.5
890.951	54289.4	1072.22	32150.2
894.808	54242.7	1076.08	31343.8
898.665	54280	1079.94	30566.5
902.522	54367.3	1083.79	29813.5
906.379	54443.6	1087.65	29156
910.236	54540.8	1091.51	28618.4
914.093	54198.2	1095.36	27831.4
917.95	54067.2	1099.22	27686.9
921.807	54158	1103.08	27205.1
925.664	53804.8	1106.94	27111

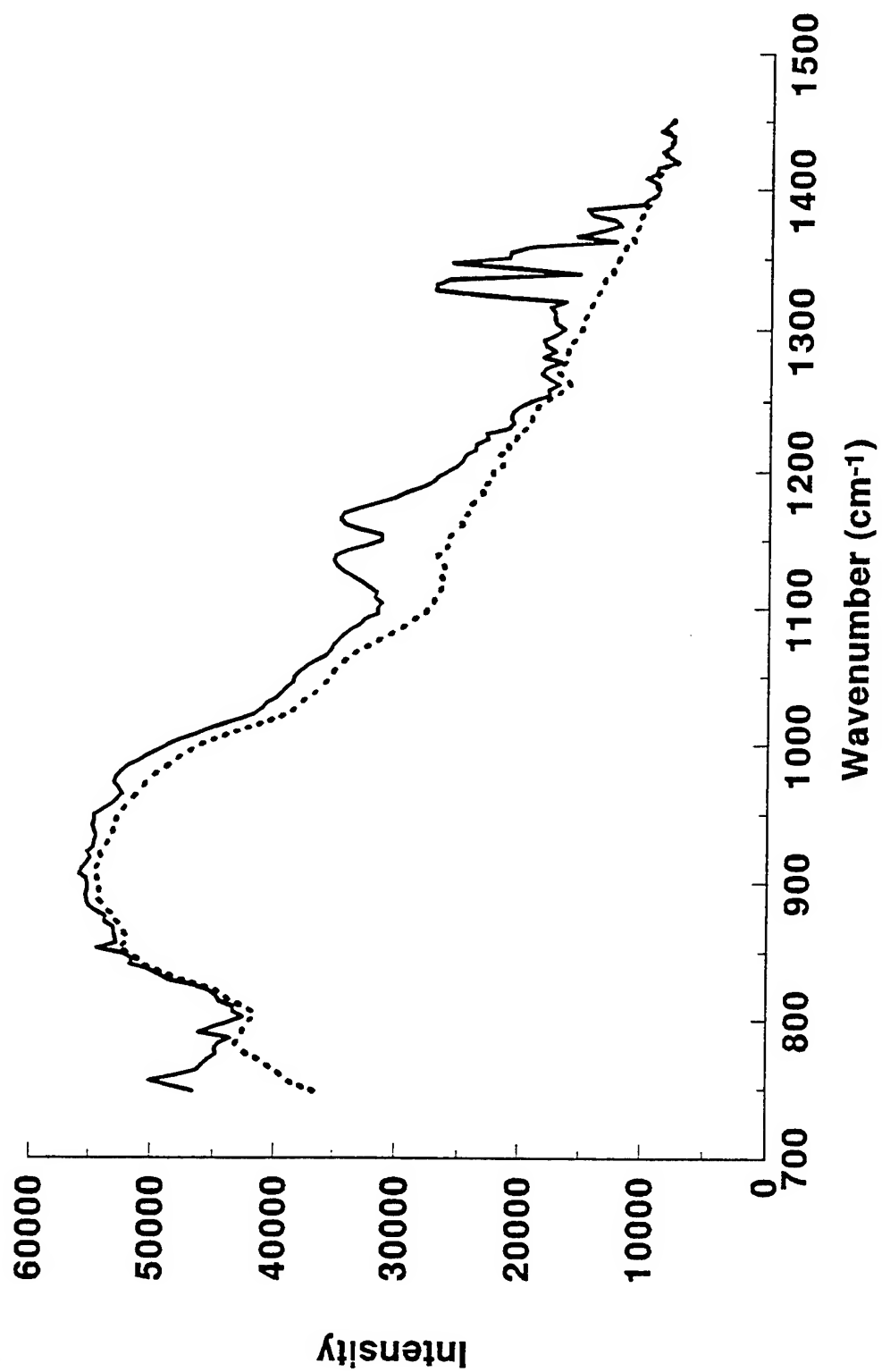


Filename: HMA0108  
Subfile: 0317

Type: OFF STACK

WN	INT	WN	INT
1110.79	26778.3	1292.07	15748.7
1114.65	26531.7	1295.93	15582.9
1118.51	26435.5	1299.78	15172.3
1122.36	26530	1303.64	15099.6
1126.22	26247.1	1307.5	14959.3
1130.08	26373.7	1311.35	14669.4
1133.93	26723.4	1315.21	14551.8
1137.79	26890.4	1319.07	14240.6
1141.65	26264.4	1322.92	14093.3
1145.5	26102.8	1326.78	13723.6
1149.36	26211.4	1330.64	13520.6
1153.22	25798.1	1334.49	13312.3
1157.08	25316.7	1338.35	12660
1160.93	24927.2	1342.21	12668.5
1164.79	25002.5	1346.07	12392.9
1168.65	24474.6	1349.92	12162.7
1172.5	24509.1	1353.78	11878.7
1176.36	24057.4	1357.64	11674.6
1180.22	23524.8	1361.49	10914.9
1184.07	23212.1	1365.35	11143.4
1187.93	23363.7	1369.21	10907
1191.79	22631.3	1373.06	10534.9
1195.64	22389.3	1376.92	10563.9
1199.5	22377.5	1380.78	10320.8
1203.36	21632.4	1384.63	10320.7
1207.22	21504	1388.49	9660.82
1211.07	21874.2	1392.35	9634.44
1214.93	21054.7	1396.21	9067.93
1218.79	21144.7	1400.06	9042.93
1222.64	20524.6	1403.92	9205.43
1226.5	20414	1407.78	9251.49
1230.36	19627.4	1411.63	8856.01
1234.21	19221.8	1415.49	8837.73
1238.07	19211.6	1419.35	7615.58
1241.93	19005.9	1423.2	8331.18
1245.79	18744.2	1427.06	8502.59
1249.64	17938.6	1430.92	8141.93
1253.5	17411.3	1434.77	7922.93
1257.36	16529.2	1438.63	7888.42
1261.21	16081	1442.49	8411.02
1265.07	16303.2	1446.35	8289.56
1268.93	17006.9	1450.2	7874.84
1272.78	16990.3		
1276.64	16423.1		
1280.5	16477.8		
1284.35	16276.8		
1288.21	16310.7		

**ON and OFF STACK Response**  
**HMA0108**



Filename: HMA0108  
Subfile: 0950

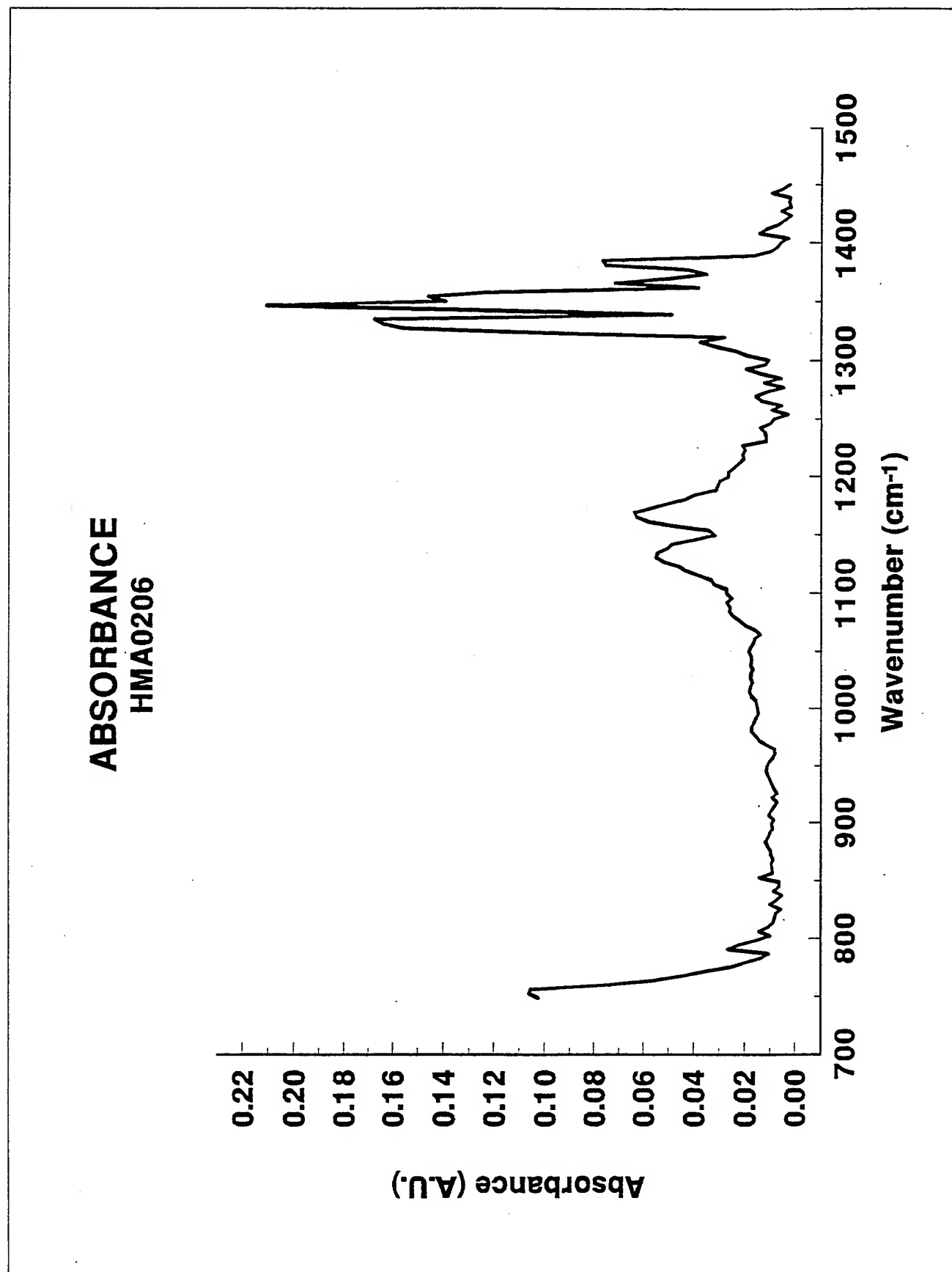
Type: ON STACK

WN	INT	WN	INT
748.245	46721.5	929.521	54694.3
752.102	48479.3	933.378	54534.6
755.959	50026.1	937.234	54657.5
759.816	47886.4	941.091	54818
763.672	46273.1	944.948	54648.3
767.529	45847.8	948.805	54644.9
771.386	45412.4	952.662	53956
775.243	44802.5	956.519	53253.7
779.1	44856.4	960.376	52758.4
782.957	44604	964.233	52372.6
786.814	43653.4	968.09	52665.8
790.671	46088.6	971.947	53030.4
794.528	45051.5	975.804	52871
798.385	43732.1	979.661	52522.6
802.242	42591	983.518	51999
806.099	43365.5	987.375	51156.7
809.956	43403.8	991.232	50470.8
813.813	44523.6	995.088	49614.3
817.669	44768.3	998.945	48825.7
821.526	45331.1	1002.8	47879.2
825.383	46550.9	1006.65	46656.1
829.24	48617.3	1010.51	45640
833.097	49330.5	1014.37	44307.7
836.954	50217.9	1018.23	42892.8
840.811	51640.9	1022.08	41711.4
844.668	51496.5	1025.94	41122.7
848.525	52229.3	1029.8	40738.4
852.382	54306.1	1033.65	39911.9
856.239	52801.3	1037.51	39513.1
860.096	52914.7	1041.37	39064.6
863.953	53035.6	1045.22	38506.1
867.81	53039.3	1049.08	38419.4
871.667	53756.8	1052.94	37995.9
875.524	53717.9	1056.8	37360.9
879.38	54526.7	1060.65	36696.7
883.237	55148.2	1064.51	35810.9
887.094	55280.5	1068.37	35420.6
890.951	55349.2	1072.22	35173.2
894.808	55261.8	1076.08	34724.2
898.665	55234.6	1079.94	34256.7
902.522	55319.3	1083.79	33718.2
906.379	55889.2	1087.65	32929.6
910.236	55675.7	1091.51	32547.1
914.093	55290.2	1095.36	31528.8
917.95	55006.3	1099.22	31547
921.807	55237.2	1103.08	31257.1
925.664	54734.1	1106.94	31751.9

Filename: HMA0108  
Subfile: 0950

Type: ON STACK

WN	INT	WN	INT
1110.79	31671	1292.07	18261.5
1114.65	32263.3	1295.93	17264.6
1118.51	32827.7	1299.78	16591.1
1122.36	33548	1303.64	17252.4
1126.22	34313.1	1307.5	17414.3
1130.08	34896.2	1311.35	17369.5
1133.93	35171.3	1315.21	17728.1
1137.79	34995.9	1319.07	16536.7
1141.65	34062.4	1322.92	23028.3
1145.5	32473.4	1326.78	27195.1
1149.36	31264.3	1330.64	27127.5
1153.22	31294	1334.49	26029.1
1157.08	32962.5	1338.35	15416.2
1160.93	34211.3	1342.21	20407.4
1164.79	34636.7	1346.07	25827.2
1168.65	34356.2	1349.92	21228.1
1172.5	33122.5	1353.78	21032.7
1176.36	31676.9	1357.64	19392.1
1180.22	30294.3	1361.49	12453.5
1184.07	29422.1	1365.35	15562.2
1187.93	28159.3	1369.21	13588.2
1191.79	27320.5	1373.06	12054.9
1195.64	26878	1376.92	12543.6
1199.5	26110.7	1380.78	14373.9
1203.36	25383.4	1384.63	14785.6
1207.22	24927.4	1388.49	10286.3
1211.07	24665.1	1392.35	9859.73
1214.93	23874.2	1396.21	9086.72
1218.79	23793.5	1400.06	8960.53
1222.64	22831.4	1403.92	9127.69
1226.5	22937.4	1407.78	9984.83
1230.36	21117.3	1411.63	9227.08
1234.21	20764.6	1415.49	9056.23
1238.07	20933.3	1419.35	7587.75
1241.93	20772.6	1423.2	8149.61
1245.79	20201	1427.06	8677.46
1249.64	19212.3	1430.92	8091.37
1253.5	17835.5	1434.77	7896.84
1257.36	17861.2	1438.63	7870.8
1261.21	17002.8	1442.49	8785.91
1265.07	17800.7	1446.35	8318.09
1268.93	18435.3	1450.2	7904.1
1272.78	18069.4		
1276.64	16754.3		
1280.5	18250.7		
1284.35	17334.2		
1288.21	18078.6		



Filename: HMA0206

Type: Absorbance

WN	ABS	WN	ABS
748.245	0.102857	929.521	0.0084469
752.102	0.106168	933.378	0.0093161
755.959	0.10564	937.234	0.01019
759.816	0.0746386	941.091	0.0110727
763.672	0.0561236	944.948	0.0118066
767.529	0.0450688	948.805	0.0115067
771.386	0.0359878	952.662	0.0105996
775.243	0.0251271	956.519	0.0092488
779.1	0.0197868	960.376	0.0082347
782.957	0.0136661	964.233	0.008458
786.814	0.0107855	968.09	0.0117058
790.671	0.0265779	971.947	0.0145955
794.528	0.0219863	975.804	0.0159819
798.385	0.0157943	979.661	0.0174138
802.242	0.0101663	983.518	0.0174175
806.099	0.0142843	987.375	0.016593
809.956	0.0106821	991.232	0.0159301
813.813	0.0088348	995.088	0.0149183
817.669	0.0082892	998.945	0.0151564
821.526	0.0077303	1002.8	0.015511
825.383	0.00588	1006.65	0.0158431
829.24	0.0099656	1010.51	0.0175414
833.097	0.0074961	1014.37	0.0182474
836.954	0.0055255	1018.23	0.0180082
840.811	0.0084254	1022.08	0.0172417
844.668	0.0065597	1025.94	0.0178038
848.525	0.0063859	1029.8	0.0177788
852.382	0.0141449	1033.65	0.0170715
856.239	0.0091158	1037.51	0.0177971
860.096	0.0092656	1041.37	0.0175823
863.953	0.0095403	1045.22	0.0176514
867.81	0.0089423	1049.08	0.0185215
871.667	0.0097067	1052.94	0.0181134
875.524	0.0099821	1056.8	0.0170187
879.38	0.0111428	1060.65	0.0162062
883.237	0.011917	1064.51	0.0143408
887.094	0.0108681	1068.37	0.0164064
890.951	0.010158	1072.22	0.0199748
894.808	0.0090963	1076.08	0.0222006
898.665	0.0094987	1079.94	0.0246213
902.522	0.0087704	1083.79	0.0261776
906.379	0.0104999	1087.65	0.0259346
910.236	0.0096609	1091.51	0.0271572
914.093	0.0084406	1095.36	0.0254549
917.95	0.0074435	1099.22	0.0272444
921.807	0.0090736	1103.08	0.0275182
925.664	0.0074474	1106.94	0.0322302

Filename: HMA0206

Type:

Absorbance

WN	ABS	WN	ABS
1110.79	0.0334585	1292.07	0.019639
1114.65	0.037904	1295.93	0.0124119
1118.51	0.0432643	1299.78	0.0110253
1122.36	0.046144	1303.64	0.0193171
1126.22	0.0522454	1307.5	0.0238284
1130.08	0.0551963	1311.35	0.0316063
1133.93	0.0545415	1315.21	0.0378213
1137.79	0.0508278	1319.07	0.0285737
1141.65	0.0489213	1322.92	0.0986563
1145.5	0.0392818	1326.78	0.156079
1149.36	0.0321472	1330.64	0.164111
1153.22	0.034463	1334.49	0.167471
1157.08	0.0476832	1338.35	0.049352
1160.93	0.058338	1342.21	0.121446
1164.79	0.0627793	1346.07	0.210848
1168.65	0.0636849	1349.92	0.139641
1172.5	0.0570108	1353.78	0.145999
1176.36	0.0506415	1357.64	0.123042
1180.22	0.0434477	1361.49	0.0386277
1184.07	0.0395991	1365.35	0.0718154
1187.93	0.0315069	1369.21	0.0506855
1191.79	0.0308855	1373.06	0.0356039
1195.64	0.0299671	1376.92	0.0429324
1199.5	0.0268404	1380.78	0.0758009
1203.36	0.0267239	1384.63	0.0767234
1207.22	0.024511	1388.49	0.0173826
1211.07	0.0225266	1392.35	0.0104726
1214.93	0.0207647	1396.21	0.0076026
1218.79	0.0210329	1400.06	0.0062123
1222.64	0.020301	1403.92	0.0031745
1226.5	0.0210919	1407.78	0.0145573
1230.36	0.0119205	1411.63	0.0118512
1234.21	0.0118678	1415.49	0.006971
1238.07	0.0124423	1419.35	0.0044431
1241.93	0.0142216	1423.2	0.0019964
1245.79	0.0103093	1427.06	0.005749
1249.64	0.0087219	1430.92	0.0020121
1253.5	0.0032927	1434.77	0.0026675
1257.36	0.0093823	1438.63	0.0022528
1261.21	0.0059658	1442.49	0.009466
1265.07	0.0134072	1446.35	0.0053087
1268.93	0.0159839	1450.2	0.0025322
1272.78	0.0114726		
1276.64	0.0051138		
1280.5	0.0124701		
1284.35	0.0061673		
1288.21	0.0140315		

Filename: HMA0206  
Subfile: 2705

Type: 40 deg C BB

WN	INT
732.817	31891.1
736.674	35012.3
740.531	37843.5
744.388	40323.2
748.245	42544.6
752.101	44218.1
755.958	45732.3
759.815	46948.7
763.672	47904.3
767.529	48834.5
771.386	49739.1
775.243	50628
779.099	51530.4
782.956	52064.4
786.813	52203.5
790.67	51914.4
794.527	51335.3
798.384	50830.8
802.241	50696.4
806.098	51259.2
809.954	52426.8
813.811	53784.1
817.668	54819.1
821.525	55834.3
825.382	57462.8
829.239	59503.8
833.096	61174
836.953	62536.7
840.809	63576.7
844.666	64318.9
848.523	64977.9
852.38	65336.1
856.237	65480.2
860.094	65765.7
863.951	66168.4
867.808	66538.6
871.664	67101.3
875.521	67506.2
879.378	68058.4
883.235	68664
887.092	69120.7
890.949	69472.5
894.806	69800.7
898.663	70018
902.519	70109.9
906.376	70295.7
910.233	70297.3

WN	INT
914.09	70237.4
917.947	70198.1
921.804	70029.9
925.661	69886.1
929.518	69854.6
933.374	69757.5
937.231	69664.2
941.088	69507
944.945	69258.3
948.802	69071.3
952.659	68816.1
956.516	68517.8
960.372	68074.6
964.229	67674.2
968.086	67291.3
971.943	66731.9
975.8	66278.5
979.657	65572.9
983.514	64977.7
987.371	64348.9
991.227	63675.7
995.084	62835.5
998.941	61877.6
1002.79	60657.2
1006.65	59109.1
1010.51	57279.9
1014.36	55438.8
1018.22	53883.5
1022.08	52705
1025.94	51823.1
1029.79	51217
1033.65	50677.8
1037.51	50061.1
1041.36	49313.5
1045.22	48797.4
1049.08	48285.7
1052.93	47919.9
1056.79	47419.1
1060.65	46835.5
1064.5	46086.3
1068.36	45242
1072.22	44355.4
1076.07	43502.9
1079.93	42514.2
1083.79	41594.4
1087.64	40662.9
1091.5	39874.5

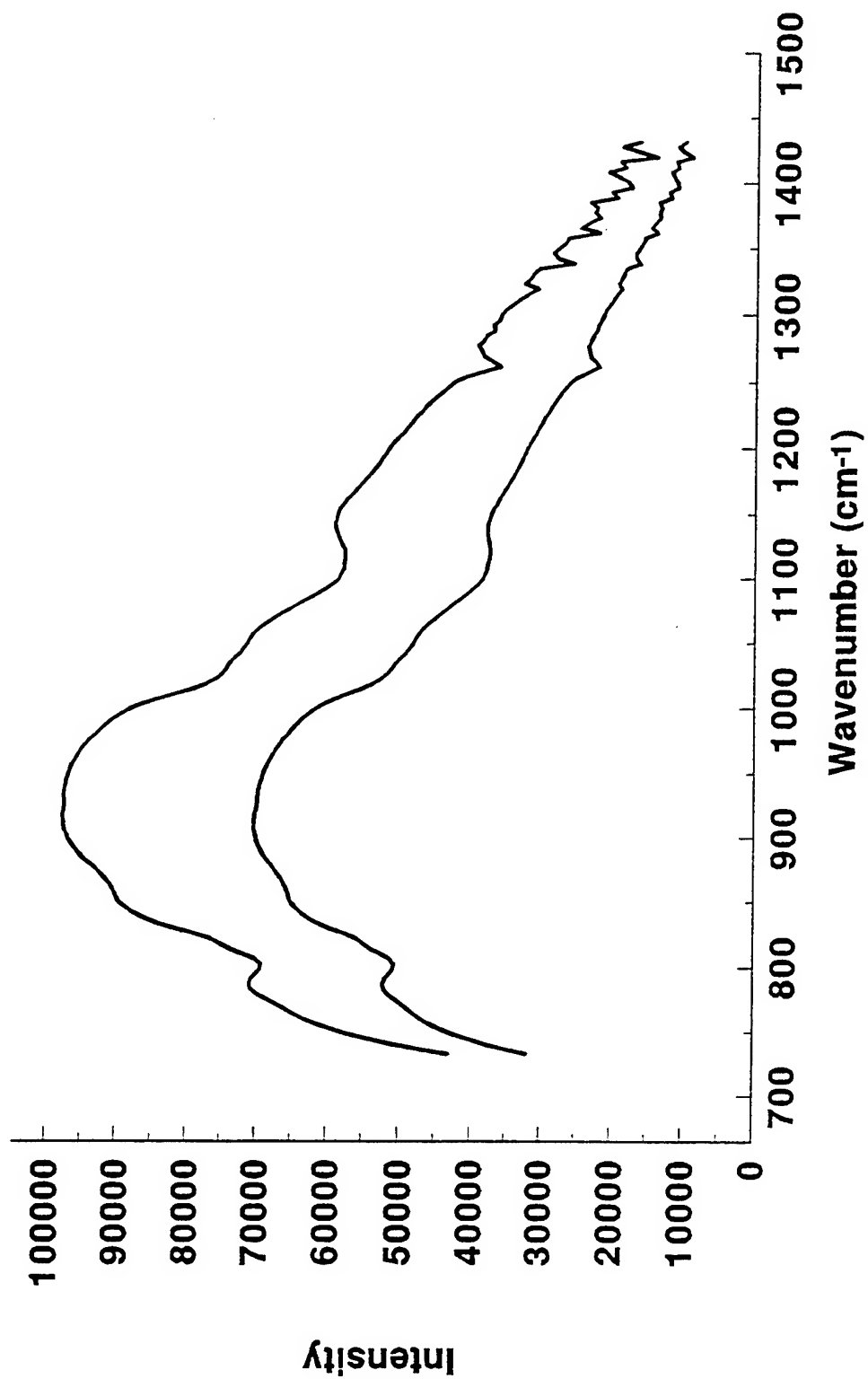


Filename: HMA0206  
Subfile: 2705

Type: 40 deg C BB

WN	INT	WN	INT
1095.36	39078.3	1276.63	23542.7
1099.21	38499.2	1280.48	23172.1
1103.07	38139.1	1284.34	22890.5
1106.93	37849.7	1288.2	22389.8
1110.79	37744.6	1292.06	22206.4
1114.64	37568.1	1295.91	21771.9
1118.5	37451.2	1299.77	21477
1122.36	37439.1	1303.63	21095.8
1126.21	37566.9	1307.48	20582.1
1130.07	37692.1	1311.34	20073.1
1133.93	37787.9	1315.2	19546.4
1137.78	37804.6	1319.05	18955.9
1141.64	37743.8	1322.91	19338.3
1145.5	37501.5	1326.77	18954
1149.35	37275.3	1330.62	18598.8
1153.21	36954.1	1334.48	18173.8
1157.07	36497.6	1338.34	16339.7
1160.92	36165.5	1342.19	16864.5
1164.78	35660.7	1346.05	16872.4
1168.64	35225.6	1349.91	16399.7
1172.49	34788.2	1353.76	15935.6
1176.35	34349.2	1357.62	15605.2
1180.21	33889.4	1361.48	13954.4
1184.06	33556.1	1365.33	14647.6
1187.92	33169.2	1369.19	14194.1
1191.78	32854.2	1373.05	13548.9
1195.63	32515.4	1376.91	13640.1
1199.49	32142.1	1380.76	13428.2
1203.35	31768.4	1384.62	13600.2
1207.21	31324.9	1388.48	12114.7
1211.06	30854.8	1392.33	12294
1214.92	30471.2	1396.19	11173.4
1218.78	30044.8	1400.05	11206.6
1222.63	29682	1403.9	11662.6
1226.49	29183.6	1407.76	11991.8
1230.35	28753.5	1411.62	11113.4
1234.2	28282.3	1415.47	11303.8
1238.06	27770.5	1419.33	9128.56
1241.92	27268.8	1423.19	10300.8
1245.77	26672.2	1427.04	10995.2
1249.63	25989.5	1430.9	10081
1253.49	24976.5		
1257.34	23383.2		
1261.2	22096.8		
1265.06	22536.5		
1268.91	23277.7		
1272.77	23467.1		

**Blackbody Response at 40°C and 80°C**  
**HMA0206**



Filename: HMA0206  
Subfile: 2860

Type: 80 deg C BB

WN	INT	WN	INT
732.817	43144.5	914.09	97578.6
736.674	47275.8	917.947	97638.5
740.531	50968.1	921.804	97502.2
744.388	54219.4	925.661	97420.1
748.245	57153	929.518	97420.3
752.101	59377.3	933.374	97483.1
755.958	61443.8	937.231	97442.2
759.815	63192.5	941.088	97275
763.672	64554.2	944.945	97113.7
767.529	65869	948.802	96889.1
771.386	67203.1	952.659	96720.8
775.243	68520.9	956.516	96453.3
779.099	69748.6	960.372	95885.4
782.956	70614.6	964.229	95468.3
786.813	70862.9	968.086	95101.6
790.67	70640	971.943	94462.1
794.527	69989.5	975.8	93896.1
798.384	69344	979.657	93020.1
802.241	69243.1	983.514	92246.9
806.098	70046.7	987.371	91490.4
809.954	71742	991.227	90578
813.811	73549.9	995.084	89494.5
817.668	75016.5	998.941	88236.4
821.525	76359	1002.79	86532.3
825.382	78636.6	1006.65	84207.8
829.239	81503	1010.51	81586.1
833.096	83864.9	1014.36	79064.1
836.953	85745.4	1018.22	77149.3
840.809	87334.7	1022.08	75791.8
844.666	88396.8	1025.94	74904.1
848.523	89398.1	1029.79	74334.3
852.38	89860.5	1033.65	73924.1
856.237	90110.6	1037.51	73323
860.094	90483.8	1041.36	72451.8
863.951	90951.9	1045.22	71923.5
867.808	91520.8	1049.08	71405.3
871.664	92217.1	1052.93	71027.7
875.521	92845	1056.79	70469.2
879.378	93669.7	1060.65	69746.8
883.235	94592.1	1064.5	68747.5
887.092	95318.2	1068.36	67704.6
890.949	95854.1	1072.22	66553
894.806	96402.4	1076.07	65419
898.663	96844.5	1079.93	64041.2
902.519	97058.2	1083.79	62799.8
906.376	97433.6	1087.64	61513.8
910.233	97532.7	1091.5	60417

Filename: HMA0206  
Subfile: 2860

Type: 80 deg C BB

WN	INT	WN	INT
1095.36	59363.9	1276.63	39293.2
1099.21	58582.2	1280.48	38575.7
1103.07	58208.3	1284.34	38091.5
1106.93	57855.4	1288.2	37039.7
1110.79	57822.3	1292.06	37109.7
1114.64	57697	1295.91	36323.9
1118.5	57672.9	1299.77	35997.7
1122.36	57730.8	1303.63	35453.3
1126.21	58136.2	1307.48	34425.3
1130.07	58483.7	1311.34	33395
1133.93	58741.7	1315.2	32294.9
1137.78	59000.3	1319.05	30893.9
1141.64	59110.2	1322.91	32648.5
1145.5	58915.2	1326.77	31966.1
1149.35	58718.9	1330.62	31432
1153.21	58422.7	1334.48	30670.8
1157.07	57856.1	1338.34	25748
1160.92	57389.2	1342.19	27955.1
1164.78	56645.3	1346.05	28628.9
1168.64	56009.3	1349.91	27783.8
1172.49	55353.1	1353.76	26933.2
1176.35	54730.5	1357.62	26492.5
1180.21	54080.2	1361.48	22234.9
1184.06	53570	1365.33	24639.1
1187.92	52986.4	1369.19	23533.9
1191.78	52634.6	1373.05	22139.1
1195.63	52129.8	1376.91	22729.4
1199.49	51648.7	1380.76	22513.2
1203.35	51096.2	1384.62	23368.6
1207.21	50426.3	1388.48	19639.7
1211.06	49698.1	1392.33	20325.3
1214.92	49167.3	1396.19	17594
1218.78	48521.1	1400.05	18076.1
1222.63	48077.5	1403.9	19349.1
1226.49	47271.6	1407.76	20804
1230.35	46668.7	1411.62	18514.4
1234.2	46009.8	1415.47	19124.2
1238.06	45212.4	1419.33	14071.5
1241.92	44436.2	1423.19	16527.2
1245.77	43531.6	1427.04	18818.6
1249.63	42617	1430.9	16408.1
1253.49	40980.7		
1257.34	38499.9		
1261.2	36223.2		
1265.06	37225		
1268.91	38477.1		
1272.77	38869.9		

Filename: HMA0206  
Subfile: 0001

Type: OFF STACK

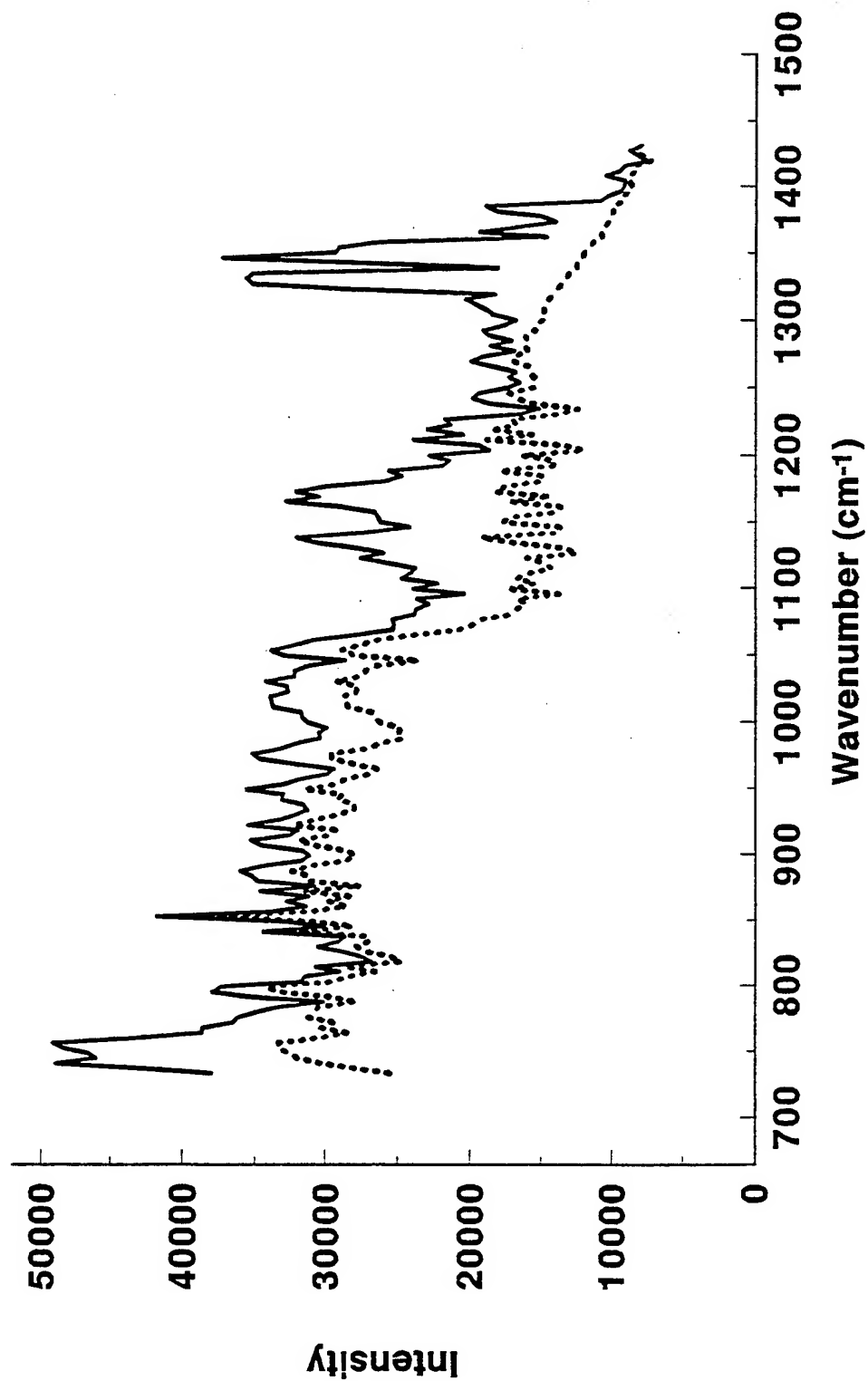
WN	INT	WN	INT
732.817	25519.3	914.09	29611.6
736.674	27906.2	917.947	29350.4
740.531	30314.3	921.804	32273.9
744.388	32010.2	925.661	30660.1
748.245	32657.8	929.518	29205.9
752.101	33341.7	933.374	27976.5
755.958	33320.9	937.231	27941.5
759.815	30191.7	941.088	29153.5
763.672	28489.7	944.945	28810.4
767.529	30263.2	948.802	31492
771.386	29497.5	952.659	29195.5
775.243	31208.2	956.516	28573.7
779.099	30800.1	960.372	26900.7
782.956	30516.1	964.229	26389.6
786.813	27744.3	968.086	27965.2
790.67	29753.4	971.943	29565.5
794.527	33415.7	975.8	29559.1
798.384	34171.7	979.657	27116.2
802.241	29526.6	983.514	26007.8
806.098	28349	987.371	24573.8
809.954	26527.8	991.227	24921.3
813.811	28592.2	995.084	24815.4
817.668	24705.4	998.941	26175.7
821.525	25435.3	1002.79	26536.6
825.382	27286.4	1006.65	26693.9
829.239	27796	1010.51	28365.7
833.096	26920.6	1014.36	28529
836.953	27026.2	1018.22	28774.6
840.809	31893.1	1022.08	27822.7
844.666	28067.7	1025.94	27761.1
848.523	31085.9	1029.79	29261.4
852.38	37678.3	1033.65	27427.7
856.237	31008.1	1037.51	27178.1
860.094	28558.8	1041.36	26391
863.951	29767.2	1045.22	23573.9
867.808	28367.5	1049.08	27857
871.664	31541.3	1052.93	28863.7
875.521	27557	1056.79	27578.9
879.378	31255.2	1060.65	26409.5
883.235	31326	1064.5	23778.1
887.092	32378.3	1068.36	20720.1
890.949	30945.4	1072.22	19669
894.806	28550.1	1076.07	19222.9
898.663	27888.7	1079.93	17228.1
902.519	28556.4	1083.79	16726.5
906.376	30910.7	1087.64	16092.2
910.233	31916.2	1091.5	16653.3

Filename: HMA0206  
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT
1095.36	13790.2	1276.63	15893.3
1099.21	17114	1280.48	16153.2
1103.07	15412.1	1284.34	15963.9
1106.93	16718.3	1288.2	16142.4
1110.79	15780.9	1292.06	15450.1
1114.64	14280.7	1295.91	15392
1118.5	14816.6	1299.77	14848.6
1122.36	15986.9	1303.63	14959.4
1126.21	12456.7	1307.48	14801.5
1130.07	13516.4	1311.34	14510.7
1133.93	16844.7	1315.2	14475.5
1137.78	19203.3	1319.05	14141.6
1141.64	13880.3	1322.91	13901.9
1145.5	13643.5	1326.77	13538.6
1149.35	17671.6	1330.62	13279.3
1153.21	17193.7	1334.48	13082
1157.07	13935.1	1338.34	12520.9
1160.92	13615.1	1342.19	12457.6
1164.78	17109.2	1346.05	12127.1
1168.64	14369.3	1349.91	11971.5
1172.49	18217.3	1353.76	11574.8
1176.35	17478.4	1357.62	11363.1
1180.21	14973.4	1361.48	10695.2
1184.06	14933.9	1365.33	10784.8
1187.92	17897.2	1369.19	10582
1191.78	14189.4	1373.05	10223.1
1195.63	14067.9	1376.91	10186.5
1199.49	16305.3	1380.76	9927.29
1203.35	11994.5	1384.62	9947.63
1207.21	13413.9	1388.48	9215.48
1211.06	18768.4	1392.33	9219.64
1214.92	15646.6	1396.19	8720.97
1218.78	18188.6	1400.05	8576.6
1222.63	16742.7	1403.9	8744.36
1226.49	17033.9	1407.76	8766.7
1230.35	13781.3	1411.62	8300.82
1234.2	12411.7	1415.47	8362.59
1238.06	15934	1419.33	7209.2
1241.92	16753	1423.19	7930.38
1245.77	17242.2	1427.04	8111.27
1249.63	15544.5	1430.9	7749.56
1253.49	15898.3		
1257.34	15507.2		
1261.2	15770.9		
1265.06	15929.2		
1268.91	16944		
1272.77	16929		

**ON and OFF STACK Response**  
**HMA0206**



Filename: HMA0206  
Subfile: 0202

Type: ON STACK

WN	INT	WN	INT
732.817	38040.4	914.09	32566.6
736.674	42718.2	917.947	31973.4
740.531	48893.1	921.804	35408.4
744.388	46048.4	925.661	33270.4
748.245	46590.9	929.518	32196.9
752.101	48364.2	933.374	31314.5
755.958	49088.4	937.231	31597.5
759.815	42748.5	941.088	33091.9
763.672	38654.5	944.945	33024.2
767.529	38602.1	948.802	35526.5
771.386	36498.8	952.659	32978.9
775.243	36210.9	956.516	31894.1
779.099	34883.4	960.372	29877.7
782.956	33425.1	964.229	29451.4
786.813	30132.4	968.086	32142.3
790.67	35418.7	971.943	34681
794.527	37909.5	975.8	35126
798.384	37362.2	979.657	33220.2
802.241	31703.7	983.514	32111.7
806.098	31484.3	987.371	30412
809.954	29008.3	991.227	30464.5
813.811	30672.2	995.084	29959.8
817.668	26786	998.941	31284.3
821.525	27407	1002.79	31641.4
825.382	28822.8	1006.65	31732.4
829.239	30500.2	1010.51	33667.3
833.096	29053.7	1014.36	33843.9
836.953	28646	1018.22	33892.5
840.809	34326.4	1022.08	32695.3
844.666	30056.3	1025.94	32762.9
848.523	33010.2	1029.79	34185.8
852.38	41721.7	1033.65	32238.9
856.237	33782.8	1037.51	32185.4
860.094	31447.4	1041.36	31326.8
863.951	32732.4	1045.22	28625.8
867.808	31204.7	1049.08	32959.4
871.664	34576.3	1052.93	33805.7
875.521	30801.4	1056.79	32255.8
879.378	34824.9	1060.65	30873.4
883.235	35194.5	1064.5	27768.1
887.092	35927.5	1068.36	25330.4
890.949	34328.3	1072.22	25222.2
894.806	31662.2	1076.07	25305.9
898.663	31179.9	1079.93	23925.6
902.519	31600.2	1083.79	23736.9
906.376	34518.9	1087.64	22940.8
910.233	35230.3	1091.5	23659.9

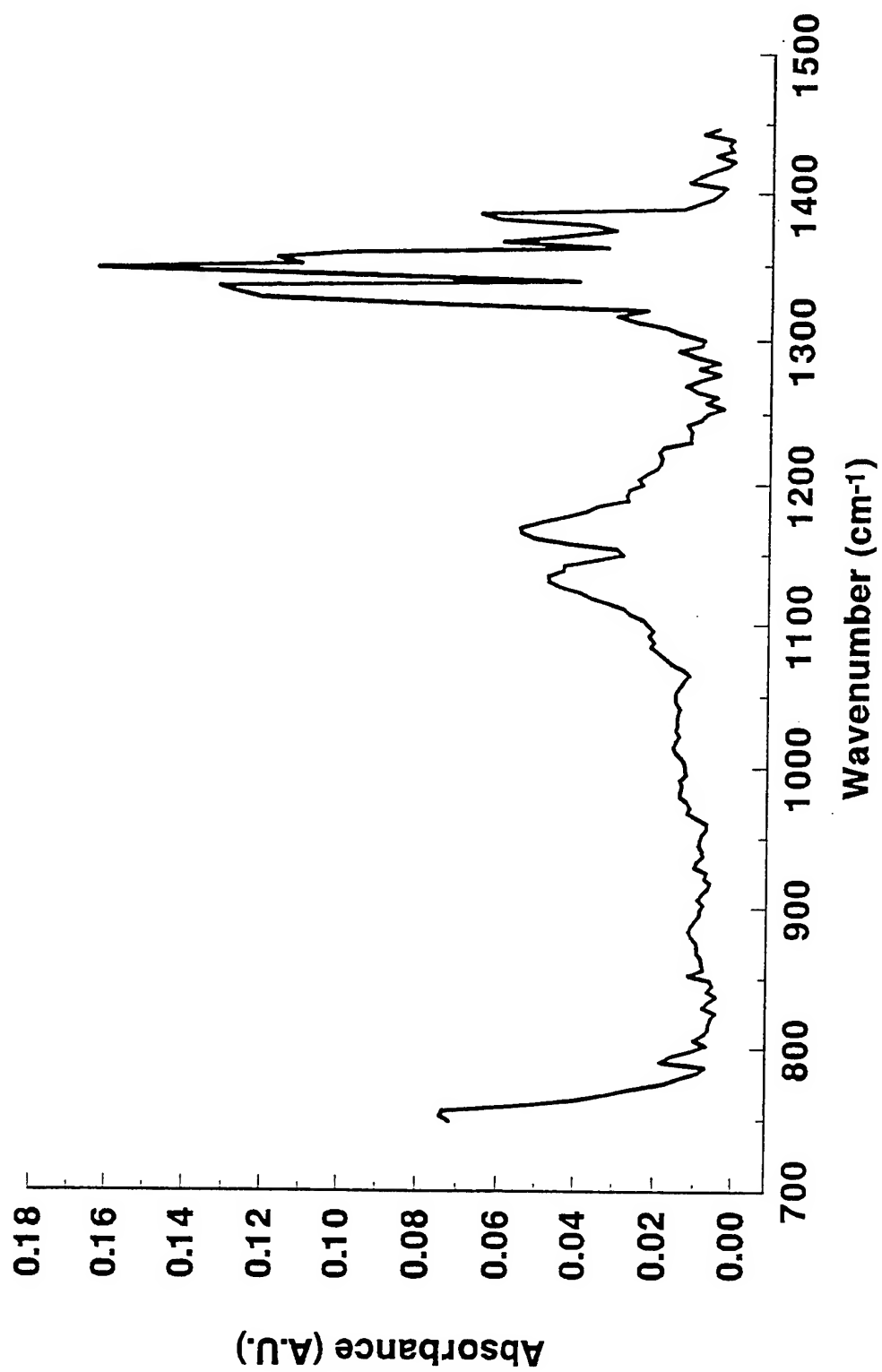


Filename: HMA0206  
Subfile: 0202

Type: ON STACK

WN	INT	WN	INT
1095.36	20432.3	1276.63	16896.2
1099.21	23926.5	1280.48	18516.2
1103.07	22380.3	1284.34	17127.8
1106.93	24714	1288.2	18662.8
1110.79	24168.8	1292.06	19040.4
1114.64	23880.2	1295.91	17624.2
1118.5	25702.7	1299.77	16840.8
1122.36	27491.1	1303.63	18366.4
1126.21	25971.9	1307.48	18833.4
1130.07	27779.8	1311.34	19621.8
1133.93	30677.9	1315.2	20277.6
1137.78	32034.2	1319.05	18302.1
1141.64	26921.6	1322.91	28748.7
1145.5	24265.5	1326.77	35174.2
1149.35	26155.4	1330.62	35558.8
1153.21	26300.7	1334.48	35157.1
1157.07	26607	1338.34	18109.6
1160.92	28877.9	1342.19	27425.4
1164.78	32790.3	1346.05	37220.7
1168.64	30473.5	1349.91	29332
1172.49	32113.2	1353.76	29047.1
1176.35	29870.2	1357.62	26321.6
1180.21	25819.4	1361.48	14630.2
1184.06	24780.8	1365.33	19294.7
1187.92	25518.1	1369.19	16343
1191.78	21899.2	1373.05	14017
1195.63	21502	1376.91	14990.6
1199.49	22811.6	1380.76	18121.9
1203.35	18668.8	1384.62	18856.6
1207.21	19399.8	1388.48	10884.9
1211.06	23934.8	1392.33	10303.3
1214.92	20522	1396.19	9353.2
1218.78	22943.9	1400.05	9131.42
1222.63	21376.3	1403.9	9063.19
1226.49	21744.7	1407.76	10420.4
1230.35	16530.4	1411.62	9440.16
1234.2	15153.4	1415.47	9075.69
1238.06	18658.4	1419.33	7498.51
1241.92	19780.8	1423.19	8094.72
1245.77	19390.3	1427.04	8703.28
1249.63	17366.2	1430.9	7918.19
1253.49	16558.2		
1257.34	17259.3		
1261.2	16804		
1265.06	18328.2		
1268.91	19882.3		
1272.77	19084.5		

**ABSORBANCE**  
**HMA0210**



Filename: HMA0210

Type:

Absorbance

WN	ABS	WN	ABS
748.245	0.0720218	929.518	0.0102236
752.102	0.074069	933.375	0.0096197
755.958	0.0735302	937.231	0.0081821
759.815	0.0527692	941.088	0.0084345
763.672	0.0391767	944.945	0.0091422
767.529	0.031712	948.802	0.0089025
771.386	0.0252381	952.659	0.0084182
775.243	0.0175056	956.516	0.0072408
779.1	0.0137649	960.373	0.0072297
782.957	0.0090514	964.23	0.0097718
786.813	0.0072623	968.086	0.0121495
790.67	0.0183247	971.943	0.0116749
794.527	0.0160534	975.8	0.0124555
798.384	0.010869	979.657	0.0140736
802.241	0.0069698	983.514	0.0139766
806.098	0.0098723	987.371	0.0136336
809.955	0.0075535	991.228	0.0140243
813.812	0.006273	995.085	0.0126702
817.668	0.0062372	998.941	0.0129242
821.525	0.0055814	1002.79	0.0130306
825.382	0.0046176	1006.65	0.0139214
829.239	0.0077283	1010.51	0.0152501
833.096	0.0064603	1014.36	0.0157431
836.953	0.0044441	1018.22	0.0151217
840.81	0.0066223	1022.08	0.0144671
844.667	0.0053553	1025.94	0.0151008
848.523	0.0059857	1029.79	0.0147942
852.38	0.0116067	1033.65	0.0149222
856.237	0.0077794	1037.51	0.0146837
860.094	0.0081584	1041.36	0.0142993
863.951	0.0083608	1045.22	0.0152286
867.808	0.0094197	1049.08	0.0154127
871.665	0.009506	1052.93	0.0152217
875.522	0.0097752	1056.79	0.0140425
879.378	0.0110207	1060.65	0.0132811
883.235	0.0116587	1064.5	0.0121074
887.092	0.011069	1068.36	0.013648
890.949	0.0100637	1072.22	0.0163079
894.806	0.0089713	1076.07	0.0180243
898.663	0.0088204	1079.93	0.0196462
902.52	0.0079645	1083.79	0.0215175
906.377	0.0093261	1087.64	0.0209717
910.233	0.0083305	1091.5	0.0220054
914.09	0.0069718	1095.36	0.0211018
917.947	0.0062272	1099.21	0.0224177
921.804	0.007608	1103.07	0.0236302
925.661	0.0072944	1106.93	0.0267918

Filename: HMA0210

Type:

Absorbance

WN	ABS	WN	ABS
1110.79	0.0282799	1292.06	0.0152203
1114.64	0.0320504	1295.91	0.0096427
1118.5	0.0368471	1299.77	0.0089456
1122.36	0.039354	1303.63	0.0147261
1126.21	0.0447608	1307.48	0.0185526
1130.07	0.0474707	1311.34	0.0259064
1133.93	0.0477058	1315.2	0.030514
1137.78	0.0437734	1319.05	0.0234246
1141.64	0.0435648	1322.91	0.0772032
1145.5	0.0354101	1326.77	0.121173
1149.35	0.028788	1330.62	0.127701
1153.21	0.0302035	1334.48	0.132063
1157.07	0.0422233	1338.34	0.0404536
1160.92	0.0514249	1342.19	0.094289
1164.78	0.0546943	1346.05	0.163459
1168.64	0.0550052	1349.91	0.111275
1172.49	0.0496959	1353.76	0.117393
1176.35	0.0433583	1357.62	0.0994229
1180.21	0.0379114	1361.48	0.0332778
1184.06	0.0350361	1365.33	0.0600762
1187.92	0.0275062	1369.19	0.0440484
1191.78	0.0277824	1373.05	0.0313201
1195.64	0.0271211	1376.91	0.0367062
1199.49	0.0240813	1380.76	0.0612987
1203.35	0.0249062	1384.62	0.0657707
1207.21	0.0228674	1388.48	0.0146768
1211.06	0.0206695	1392.33	0.0107812
1214.92	0.0195776	1396.19	0.0068231
1218.78	0.0193876	1400.05	0.0048895
1222.63	0.0199611	1403.9	0.003661
1226.49	0.0190343	1407.76	0.0130446
1230.35	0.0121941	1411.62	0.0106767
1234.2	0.0121892	1415.47	0.00723
1238.06	0.0119513	1419.33	0.0032669
1241.92	0.0129858	1423.19	0.0016209
1245.77	0.0095702	1427.04	0.0060537
1249.63	0.0081357	1430.9	0.0019328
1253.49	0.0037784	1434.76	0.0027792
1257.34	0.0081152	1438.61	0.0019909
1261.2	0.0054454	1442.47	0.0093288
1265.06	0.0107722	1446.33	0.0056135
1268.91	0.0134251		
1272.77	0.0096232		
1276.63	0.0047594		
1280.49	0.0099523		
1284.34	0.0050246		
1288.2	0.010962		

Filename: HMA0210  
Subfile: 2701

Type: 40 deg C BB

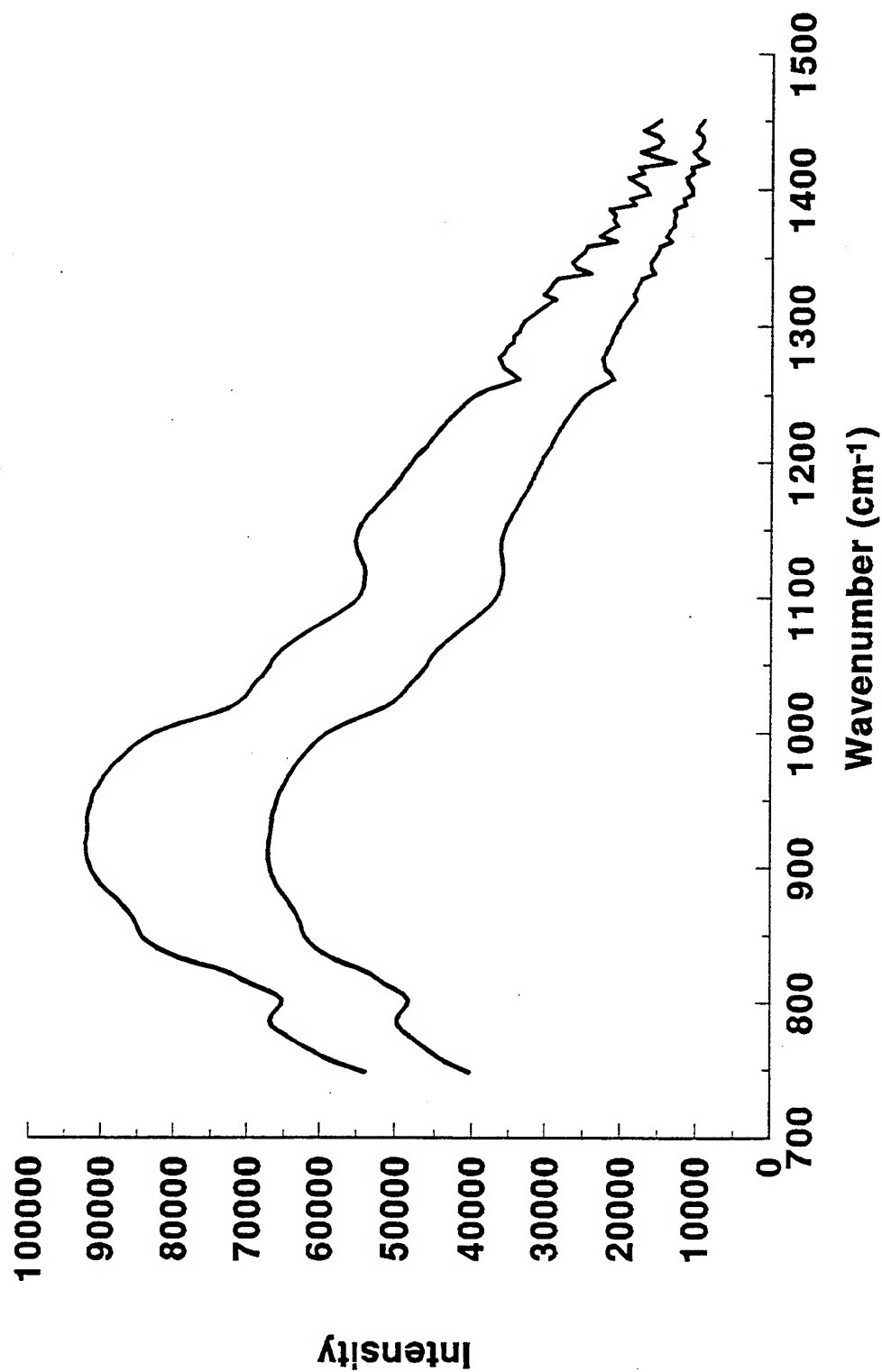
WN	INT	WN	INT
748.245	40442.1	929.521	66816.8
752.102	42072.8	933.378	66745.9
755.959	43530.6	937.234	66641.7
759.816	44666.5	941.091	66511.2
763.672	45608.9	944.948	66283.2
767.529	46476	948.805	66086.3
771.386	47351.6	952.662	65858.9
775.243	48205.1	956.519	65558
779.1	49057	960.376	65161
782.957	49591	964.233	64776.9
786.814	49742.2	968.09	64405.1
790.671	49481	971.947	63873.2
794.528	48943.3	975.804	63427.4
798.385	48475.1	979.661	62770.5
802.242	48370	983.518	62204.2
806.099	48910.9	987.375	61589.3
809.956	50026.6	991.232	60928.7
813.813	51343.2	995.088	60111.2
817.669	52298.6	998.945	59200.5
821.526	53306.2	1002.8	58020
825.383	54830.4	1006.65	56539.4
829.24	56785.2	1010.51	54794.8
833.097	58376.5	1014.37	53038.1
836.954	59681.4	1018.23	51542.3
840.811	60682	1022.08	50427.1
844.668	61425.3	1025.94	49580.3
848.525	62022.7	1029.8	48985.2
852.382	62382.8	1033.65	48464.5
856.239	62526.7	1037.51	47872.4
860.096	62809.7	1041.37	47172.1
863.953	63202.5	1045.22	46667.5
867.81	63558.4	1049.08	46188.5
871.667	64111.5	1052.94	45832.9
875.524	64520	1056.8	45354.6
879.38	65043.4	1060.65	44791.3
883.237	65638.4	1064.51	44068.3
887.094	66071.3	1068.37	43272.6
890.951	66418.9	1072.22	42411.4
894.808	66739.8	1076.08	41603.6
898.665	66943.3	1079.94	40674.5
902.522	67039.2	1083.79	39799.6
906.379	67231.3	1087.65	38914.3
910.236	67231	1091.51	38167.6
914.093	67186.5	1095.36	37398.7
917.95	67135.7	1099.22	36833.3
921.807	66997.7	1103.08	36487.9
925.664	66878.9	1106.94	36191.3

Filename: HMA0210  
Subfile: 2701

Type: 40 deg C BB

WN	INT	WN	INT
1110.79	36082.8	1292.07	21204.9
1114.65	35934.7	1295.93	20807.8
1118.51	35822.9	1299.78	20514.8
1122.36	35829.1	1303.64	20136.9
1126.22	35943.2	1307.5	19664.7
1130.08	36083.7	1311.35	19184.4
1133.93	36170.3	1315.21	18703.7
1137.79	36175.5	1319.07	18158.2
1141.65	36116.2	1322.92	18482.3
1145.5	35866	1326.78	18113.6
1149.36	35647.1	1330.64	17780.4
1153.22	35334.2	1334.49	17371.1
1157.08	34886.6	1338.35	15710.1
1160.93	34579.4	1342.21	16149.1
1164.79	34100.4	1346.07	16139
1168.65	33671.7	1349.92	15690.3
1172.5	33260.1	1353.78	15242.8
1176.36	32846	1357.64	14938.9
1180.22	32384	1361.49	13427.5
1184.07	32080.3	1365.35	14026.6
1187.93	31709.1	1369.21	13623.7
1191.79	31397.2	1373.06	13021.7
1195.64	31075	1376.92	13099
1199.5	30706.3	1380.78	12886.2
1203.36	30341.8	1384.63	13032.6
1207.22	29930	1388.49	11663.1
1211.07	29478.7	1392.35	11830
1214.93	29107.8	1396.21	10777
1218.79	28706.6	1400.06	10797
1222.64	28339.5	1403.92	11210.3
1226.5	27879.9	1407.78	11471
1230.36	27470.1	1411.63	10673.1
1234.21	27010.4	1415.49	10847.6
1238.07	26538	1419.35	8811.81
1241.93	26044.5	1423.2	9913.54
1245.79	25479.6	1427.06	10535.1
1249.64	24824.3	1430.92	9706.29
1253.5	23867.2	1434.77	9357.27
1257.36	22362.2	1438.63	9422.9
1261.21	21125.1	1442.49	10187.8
1265.07	21528.1	1446.35	9810.62
1268.93	22239.9	1450.2	9253.09
1272.78	22426.6		
1276.64	22490.3		
1280.5	22139.2		
1284.35	21862.8		
1288.21	21401.2		

**Blackbody Response at 40°C and 80°C**  
**HMA0210**



Filename: HMA0210  
Subfile: 2800

Type: 80 deg C BB

WN	INT	WN	INT
748.245	53912.6	929.521	91791.9
752.102	56039.9	933.378	91865.7
755.959	57972.5	937.234	91821.8
759.816	59613.6	941.091	91680.2
763.672	60898.1	944.948	91502.6
767.529	62157.4	948.805	91297.4
771.386	63407.3	952.662	91120
775.243	64634.8	956.519	90834.3
779.1	65837.5	960.376	90340.6
782.957	66643.7	964.233	89911.7
786.814	66895.4	968.09	89532
790.671	66679.9	971.947	88946.7
794.528	66043.3	975.804	88407.4
798.385	65468.2	979.661	87567.7
802.242	65377.3	983.518	86831.3
806.099	66172.3	987.375	86104.8
809.956	67720	991.232	85234.4
813.813	69496.7	995.088	84192.5
817.669	70825.4	998.945	82998.9
821.526	72139	1002.8	81345.6
825.383	74236	1006.65	79199
829.24	76921.3	1010.51	76711.7
833.097	79133.1	1014.37	74325.6
836.954	80925.1	1018.23	72497.6
840.811	82382.2	1022.08	71256.2
844.668	83412.7	1025.94	70380.4
848.525	84320	1029.8	69829.9
852.382	84788.4	1033.65	69399.7
856.239	84993.5	1037.51	68835.4
860.096	85356.8	1041.37	68014.2
863.953	85810.9	1045.22	67514.4
867.81	86351.7	1049.08	66996.5
871.667	87000.8	1052.94	66644.5
875.524	87590.7	1056.8	66113.3
879.38	88366.4	1060.65	65417.2
883.237	89239.5	1064.51	64486.6
887.094	89923.8	1068.37	63483.9
890.951	90419.3	1072.22	62384
894.808	90914.2	1076.08	61320.7
898.665	91324.9	1079.94	60053
902.522	91548	1083.79	58863.9
906.379	91856	1087.65	57652.8
910.236	91983	1091.51	56642.3
914.093	91980.4	1095.36	55620
917.95	92047.6	1099.22	54883.7
921.807	91903.4	1103.08	54512.6
925.664	91846	1106.94	54164.7



Filename: HMA0210  
Subfile: 2800

Type: 80 deg C BB

WN	INT	WN	INT
1110.79	54128	1292.07	34430.4
1114.65	54008	1295.93	33716.8
1118.51	54000	1299.78	33374.5
1122.36	54057.4	1303.64	32862.2
1126.22	54399.6	1307.5	31939.8
1130.08	54720.2	1311.35	31018.9
1133.93	54963.2	1315.21	30052.7
1137.79	55170.7	1319.07	28822
1141.65	55276	1322.92	30262.1
1145.5	55068.9	1326.78	29640.2
1149.36	54862.2	1330.64	29140.8
1153.22	54576.4	1334.49	28430.4
1157.08	54011.4	1338.35	24178.7
1160.93	53606.8	1342.21	25985.8
1164.79	52890.7	1346.07	26533.3
1168.65	52294.1	1349.92	25765
1172.5	51649.8	1353.78	24982.3
1176.36	51098.4	1357.64	24562.5
1180.22	50451.2	1361.49	20851.3
1184.07	49977.4	1365.35	22850.6
1187.93	49430.1	1369.21	21915.3
1191.79	49070.5	1373.06	20686.5
1195.64	48602.4	1376.92	21125.5
1199.5	48101.7	1380.78	20922.1
1203.36	47608.3	1384.63	21675.5
1207.22	46970.6	1388.49	18329.9
1211.07	46296.3	1392.35	18992.7
1214.93	45792.4	1396.21	16525.4
1218.79	45180.8	1400.06	16870.4
1222.64	44736	1403.92	18037.6
1226.5	44013.2	1407.78	19194.6
1230.36	43437.4	1411.63	17213.4
1234.21	42800.2	1415.49	17780.3
1238.07	42057.8	1419.35	13184
1241.93	41341.8	1423.2	15440.2
1245.79	40504	1427.06	17415.3
1249.64	39618.7	1430.92	15308.6
1253.5	38134.9	1434.77	14685.6
1257.36	35808.2	1438.63	15189.1
1261.21	33727.8	1442.49	17069
1265.07	34598	1446.35	15944.8
1268.93	35764.3	1450.2	14930.1
1272.78	36146.2		
1276.64	36473.2		
1280.5	35817.9		
1284.35	35373.6		
1288.21	34438.3		

Filename: HMA0210

Type:

OFF STACK

Subfile: 0001

WN	INT
748.245	31323.5
752.102	31998.6
755.959	31995
759.816	28924.7
763.672	27319.6
767.529	29067.5
771.386	28344.1
775.243	30030.2
779.1	29679.8
782.957	29366.3
786.814	26742.5
790.671	28663
794.528	32242
798.385	32977.1
802.242	28512.6
806.099	27385
809.956	25614.7
813.813	27679.9
817.669	23877.4
821.526	24567.2
825.383	26408
829.24	26925.1
833.097	26121.1
836.954	26140.2
840.811	30905.3
844.668	27150.9
848.525	30197.1
852.382	36633.4
856.239	30093.6
860.096	27725.1
863.953	28879.9
867.81	27747.6
871.667	30749
875.524	26776.5
879.38	30408.6
883.237	30475.9
887.094	31587.8
890.951	30272.4
894.808	27855.4
898.665	27148.4
902.522	27825.9
906.379	30255.8
910.236	31206
914.093	28894.2
917.95	28656.1
921.807	31625.3
925.664	30250.5

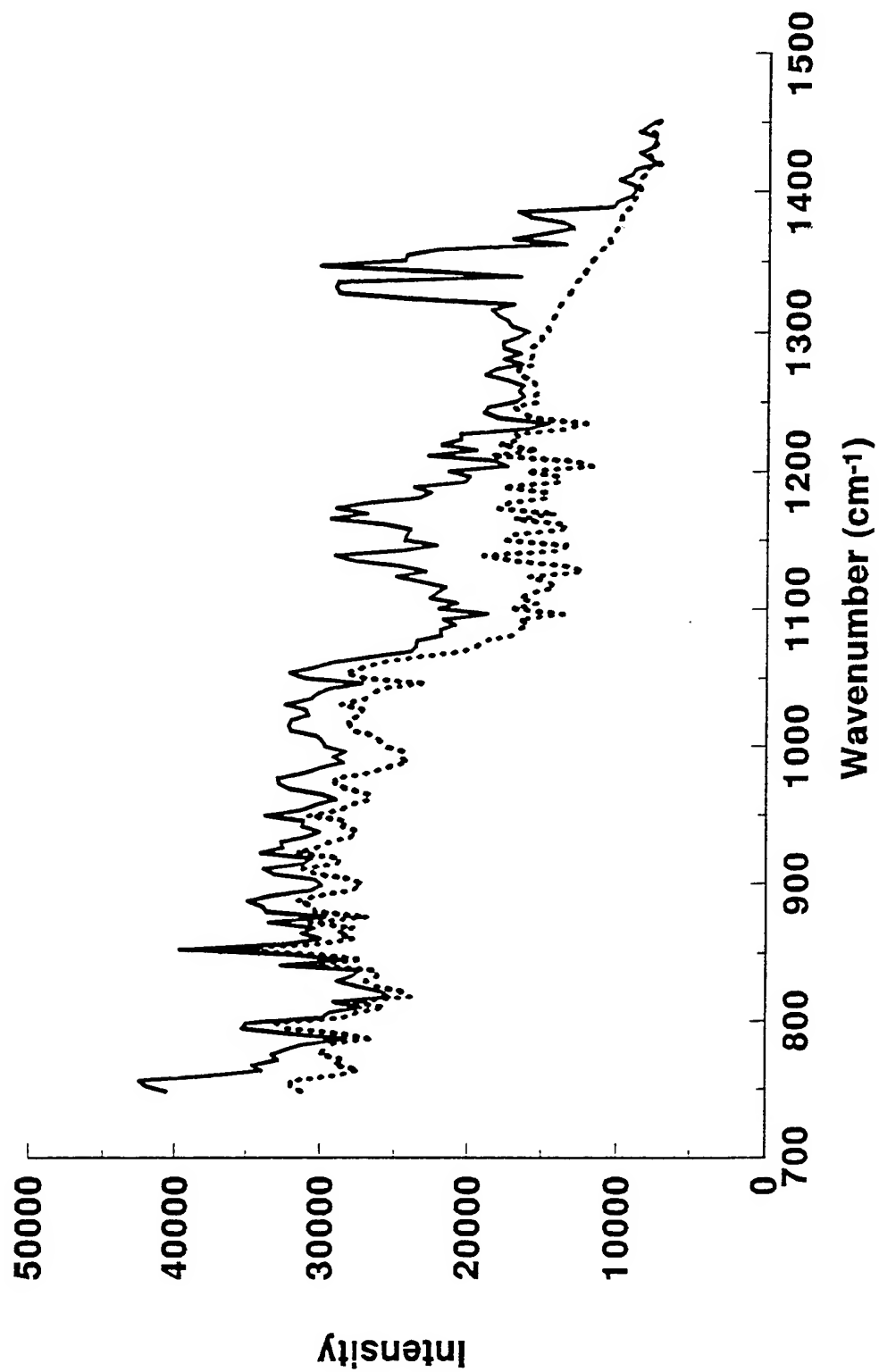
WN	INT
929.521	29419.9
933.378	27944.6
937.234	27444.7
941.091	28510.7
944.948	28194.3
948.805	30862.3
952.662	28637
956.519	28024
960.376	26630.8
964.233	26697.2
968.09	28236.4
971.947	29090.9
975.804	28966.4
979.661	26630.8
983.518	25501
987.375	24097.9
991.232	24676.4
995.088	24413
998.945	25709.6
1002.8	25990.2
1006.65	26251.9
1010.51	27862.5
1014.37	28004.8
1018.23	28124.7
1022.08	27179.4
1025.94	27196.1
1029.8	28660.6
1033.65	26978.3
1037.51	26582.8
1041.37	25842.2
1045.22	23218
1049.08	27311.7
1052.94	28323.8
1056.8	26976.8
1060.65	25893.8
1064.51	23429.9
1068.37	20411
1072.22	19438
1076.08	19018.8
1079.94	16997.6
1083.79	16686.4
1087.65	15952.1
1091.51	16529.1
1095.36	13731.9
1099.22	16936.9
1103.08	15405.8
1106.94	16574.8

Filename: HMA0210  
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT
1110.79	15673.4	1292.07	15270.3
1114.65	14217.7	1295.93	15208.5
1118.51	14728	1299.78	14672.6
1122.36	15969.1	1303.64	14827.3
1126.22	12403.2	1307.5	14655
1130.08	13466.4	1311.35	14354.5
1133.93	16727.8	1315.21	14336.1
1137.79	19016	1319.07	14002.3
1141.65	13839.2	1322.92	13764
1145.5	13538.4	1326.78	13413.4
1149.36	17485.4	1330.64	13149.1
1153.22	17010.4	1334.49	12977.4
1157.08	13813.2	1338.35	12458.2
1160.93	13491.8	1342.21	12373.3
1164.79	16942.3	1346.07	12038.9
1168.65	14229.1	1349.92	11871.9
1172.5	18021.2	1353.78	11492.8
1176.36	17279.1	1357.64	11274.8
1180.22	14809.9	1361.49	10660.5
1184.07	14766.1	1365.35	10722.9
1187.93	17688.8	1369.21	10518.5
1191.79	14038.9	1373.06	10187.6
1195.64	13925.1	1376.92	10137.2
1199.5	16131.5	1380.78	9885.18
1203.36	11854.2	1384.63	9880
1207.22	13286.6	1388.49	9205.02
1211.07	18545.8	1392.35	9182.69
1214.93	15456.3	1396.21	8736.3
1218.79	17961.7	1400.06	8582.48
1222.64	16528.8	1403.92	8706.09
1226.5	16816.9	1407.78	8708.95
1230.36	13594.4	1411.63	8279.62
1234.21	12266.6	1415.49	8317.75
1238.07	15732.1	1419.35	7266.82
1241.93	16528.3	1423.2	7930.66
1245.79	17011.6	1427.06	8061.79
1249.64	15329.6	1430.92	7748.76
1253.5	15680.1	1434.77	7412.26
1257.36	15297.9	1438.63	7438.17
1261.21	15568.7	1442.49	7792.8
1265.07	15724.8	1446.35	7645.96
1268.93	16741	1450.2	7325.63
1272.78	16718.8		
1276.64	15662		
1280.5	15944		
1284.35	15768		
1288.21	15953		

**ON and OFF STACK Response**  
**HMA0210**



Filename: HMA0210  
Subfile: 0405

Type: ON STACK

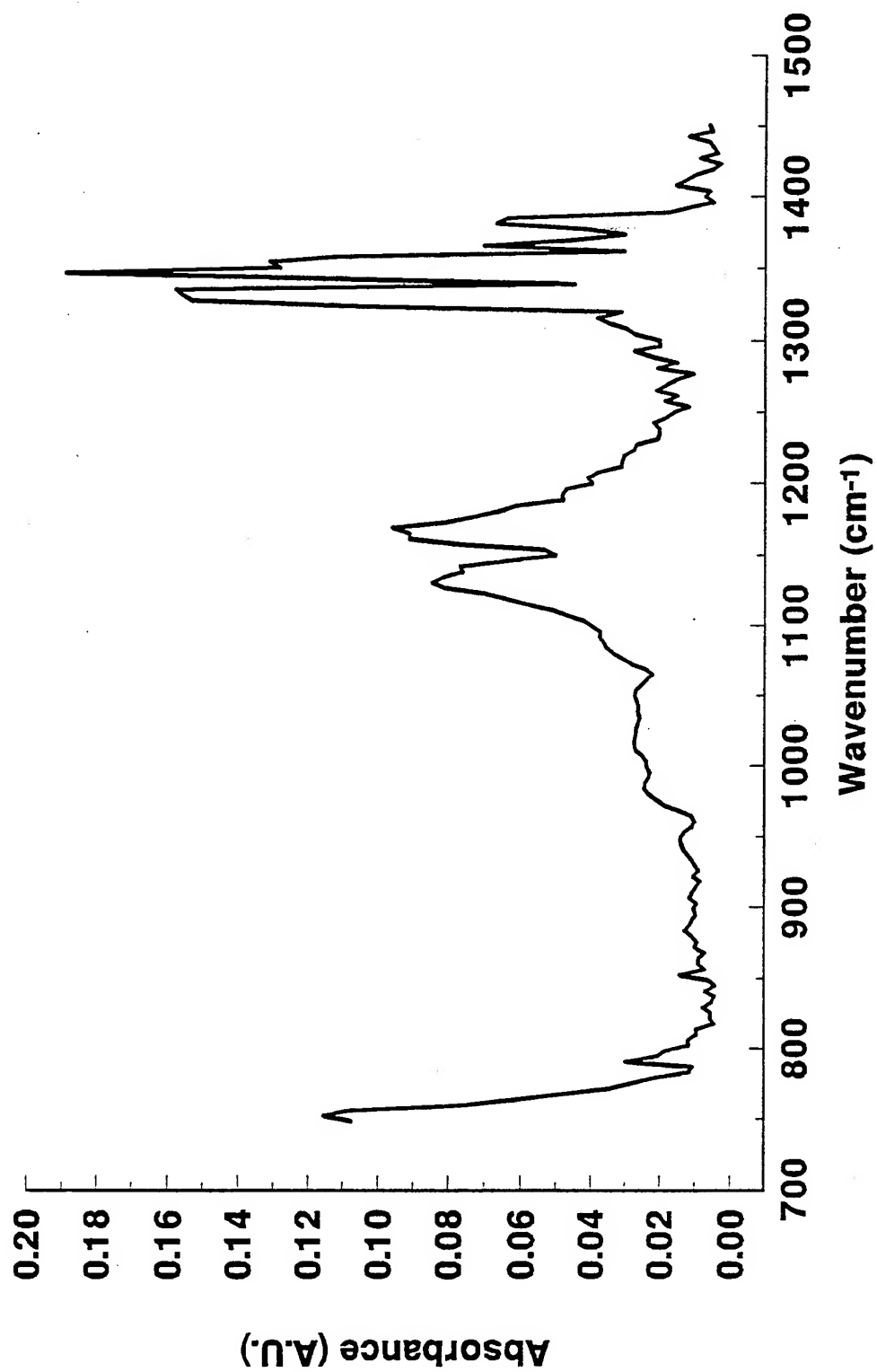
WN	INT	WN	INT
748.245	40633.9	929.521	32706.4
752.102	42014.1	933.378	31087.1
755.959	42469.5	937.234	30137.6
759.816	37333.7	941.091	31265.5
763.672	34001	944.948	31188
767.529	34573.4	948.805	33723.3
771.386	32936.1	952.662	31390
775.243	33272	956.519	30404.4
779.1	32323.1	960.376	29020.5
782.957	31155.4	964.233	29907.9
786.814	28235.2	968.09	32169.1
790.671	32303.8	971.947	32834.4
794.528	35280.2	975.804	32941.8
798.385	35009	979.661	31149.2
802.242	29893.4	983.518	29989.7
806.099	29396.7	987.375	28493.8
809.956	27239	991.232	29134.4
813.813	29047.8	995.088	28408.8
817.669	25328.2	998.945	29689.6
821.526	25887.5	1002.8	29904.7
825.383	27523.6	1006.65	30290
829.24	28864.3	1010.51	32059.1
833.097	27818.3	1014.37	32176.3
836.954	27344.8	1018.23	32035.7
840.811	32668.5	1022.08	30906
844.668	28649.8	1025.94	31055.1
848.525	31856.8	1029.8	32385.8
852.382	39686.2	1033.65	30793.6
856.239	32274.5	1037.51	30341.3
860.096	30069.4	1041.37	29493.7
863.953	31274.9	1045.22	27182.4
867.81	30493.9	1049.08	31163.9
871.667	33479.1	1052.94	32088.4
875.524	29700.4	1056.8	30480.3
879.38	33652.2	1060.65	29213.5
883.237	33953.1	1064.51	26487.6
887.094	34904.2	1068.37	23897.4
890.951	33346.9	1072.22	23562.5
894.808	30673.6	1076.08	23513.3
898.665	29958.5	1079.94	21876.3
902.522	30368	1083.79	21931.2
906.379	33194.1	1087.65	20998.9
910.236	33828.9	1091.51	21702.4
914.093	31134.4	1095.36	18747.6
917.95	30670.9	1099.22	22036.9
921.807	34031.8	1103.08	20839.3
925.664	32586.9	1106.94	22621

Filename: HMA0210  
Subfile: 0405

Type: ON STACK

WN	INT	WN	INT
1110.79	22125.2	1292.07	17749.9
1114.65	21612	1295.93	16750.4
1118.51	23183.7	1299.78	16106.9
1122.36	24901.9	1303.64	17137.1
1126.22	22979.8	1307.5	17450.6
1130.08	24656.3	1311.35	18093.9
1133.93	27732.2	1315.21	18528.1
1137.79	29045.1	1319.07	17059.3
1141.65	24400.4	1322.92	24279.6
1145.5	22235.7	1326.78	28846.3
1149.36	24357.4	1330.64	29095.7
1153.22	24240	1334.49	28956.6
1157.08	24003.6	1338.35	16607
1160.93	25745.3	1342.21	22968
1164.79	29351.8	1346.07	30102.3
1168.65	26904.1	1349.92	24478.5
1172.5	28988.1	1353.78	24303.2
1176.36	26902.6	1357.64	22223.2
1180.22	23386	1361.49	13706.8
1184.07	22648.7	1365.35	17079.3
1187.93	23687.7	1369.21	14986.9
1191.79	20299.5	1373.06	13170.8
1195.64	19997.1	1376.92	13782.9
1199.5	21378	1380.78	15830.2
1203.36	17468.5	1384.63	16709.5
1207.22	18312.1	1388.49	10454
1211.07	22792.4	1392.35	10175
1214.93	19582.6	1396.21	9242.34
1218.79	21884.9	1400.06	8967.9
1222.64	20603.8	1403.92	9031.74
1226.5	20627.3	1407.78	10008.1
1230.36	16114.7	1411.63	9185.67
1234.21	14790.6	1415.49	8971.91
1238.07	18069.3	1419.35	7454.09
1241.93	18999.6	1423.2	8048.69
1245.79	18791.5	1427.06	8608.95
1249.64	16846.2	1430.92	7891.73
1253.5	16355.6	1434.77	7608.52
1257.36	16649	1438.63	7590.23
1261.21	16409.4	1442.49	8638.21
1265.07	17443.2	1446.35	8102.72
1268.93	18939.2	1450.2	7513.27
1272.78	18330.1		
1276.64	16491.4		
1280.5	17622.7		
1284.35	16611.3		
1288.21	17708.7		

**ABSORBANCE**  
**HMA0321**



Filename: LMA0321

Type: Absorbance

WN	ABS	WN	ABS
748.245	0.107753	929.521	0.0100967
752.102	0.115287	933.378	0.0110944
755.959	0.109004	937.234	0.0123186
759.816	0.0758876	941.091	0.0135315
763.672	0.0618512	944.948	0.0140527
767.529	0.0488145	948.805	0.0142334
771.386	0.0349015	952.662	0.013151
775.243	0.0279506	956.519	0.011159
779.1	0.0211801	960.376	0.010299
782.957	0.0118351	964.233	0.0112048
786.814	0.0109631	968.09	0.0148151
790.671	0.0298578	971.947	0.0189491
794.528	0.0206607	975.804	0.0213084
798.385	0.0186622	979.661	0.0232955
802.242	0.0119232	983.518	0.0244033
806.099	0.01187	987.375	0.0242683
809.956	0.0096919	991.232	0.0233926
813.813	0.0096389	995.088	0.0229887
817.669	0.0049326	998.945	0.0238505
821.526	0.0058075	1002.8	0.0240445
825.383	0.0057242	1006.65	0.0250525
829.24	0.0076805	1010.51	0.026978
833.097	0.0055188	1014.37	0.0275515
836.954	0.004714	1018.23	0.0273569
840.811	0.0071159	1022.08	0.026934
844.668	0.0046373	1025.94	0.0268884
848.525	0.0062504	1029.8	0.0263369
852.382	0.0141944	1033.65	0.025907
856.239	0.0076067	1037.51	0.0264519
860.096	0.0091251	1041.37	0.0262714
863.953	0.0090386	1045.22	0.0266906
867.81	0.0075464	1049.08	0.0273408
871.667	0.0100141	1052.94	0.0270522
875.524	0.0096635	1056.8	0.0254568
879.38	0.0109593	1060.65	0.0240662
883.237	0.0129044	1064.51	0.02239
887.094	0.0118033	1068.37	0.02424
890.951	0.0108249	1072.22	0.0281964
894.808	0.0099003	1076.08	0.0311142
898.665	0.0104133	1079.94	0.033866
902.522	0.009756	1083.79	0.0357463
906.379	0.0116	1087.65	0.0365983
910.236	0.0109691	1091.51	0.0377216
914.093	0.0097844	1095.36	0.0375949
917.95	0.0088933	1099.22	0.0400668
921.807	0.0105389	1103.08	0.0422294
925.664	0.0091831	1106.94	0.0468486



Filename: LMA0321

Type: Absorbance

WN	ABS	WN	ABS
1110.79	0.0513027	1292.07	0.0274038
1114.65	0.0584142	1295.93	0.0203333
1118.51	0.0642787	1299.78	0.020471
1122.36	0.0699313	1303.64	0.0272353
1126.22	0.0812257	1307.5	0.0298697
1130.08	0.0846675	1311.35	0.034932
1133.93	0.0816727	1315.21	0.0384019
1137.79	0.0762898	1319.07	0.0316462
1141.65	0.0768403	1322.92	0.104173
1145.5	0.0644175	1326.78	0.153319
1149.36	0.0505783	1330.64	0.155914
1153.22	0.0536383	1334.49	0.157732
1157.08	0.0764919	1338.35	0.0452505
1160.93	0.0911752	1342.21	0.112242
1164.79	0.0914055	1346.07	0.188876
1168.65	0.0959519	1349.92	0.128495
1172.5	0.0807083	1353.78	0.131121
1176.36	0.0733684	1357.64	0.111689
1180.22	0.0664873	1361.49	0.030623
1184.07	0.0617867	1365.35	0.070264
1187.93	0.0483858	1369.21	0.0462309
1191.79	0.048429	1373.06	0.0305411
1195.64	0.0472701	1376.92	0.0411854
1199.5	0.0400561	1380.78	0.0669569
1203.36	0.0411381	1384.63	0.0640343
1207.22	0.0381514	1388.49	0.0178916
1211.07	0.0314833	1392.35	0.0120224
1214.93	0.0312174	1396.21	0.0055216
1218.79	0.0305317	1400.06	0.0075071
1222.64	0.0277136	1403.92	0.0063835
1226.5	0.0268634	1407.78	0.0155959
1230.36	0.0209244	1411.63	0.0128347
1234.21	0.0204612	1415.49	0.0101586
1238.07	0.0205984	1419.35	0.0054856
1241.93	0.021967	1423.2	0.0034328
1245.79	0.0184512	1427.06	0.0088766
1249.64	0.0162261	1430.92	0.004286
1253.5	0.0122465	1434.77	0.0053194
1257.36	0.0186933	1438.63	0.0063927
1261.21	0.0154789	1442.49	0.0120516
1265.07	0.0210575	1446.35	0.005834
1268.93	0.0183646	1450.2	0.0062791
1272.78	0.0152321		
1276.64	0.0109143		
1280.5	0.0207392		
1284.35	0.0155172		
1288.21	0.0225894		

Filename: HMA0321  
Subfile: 2890

Type: 30 deg C BB

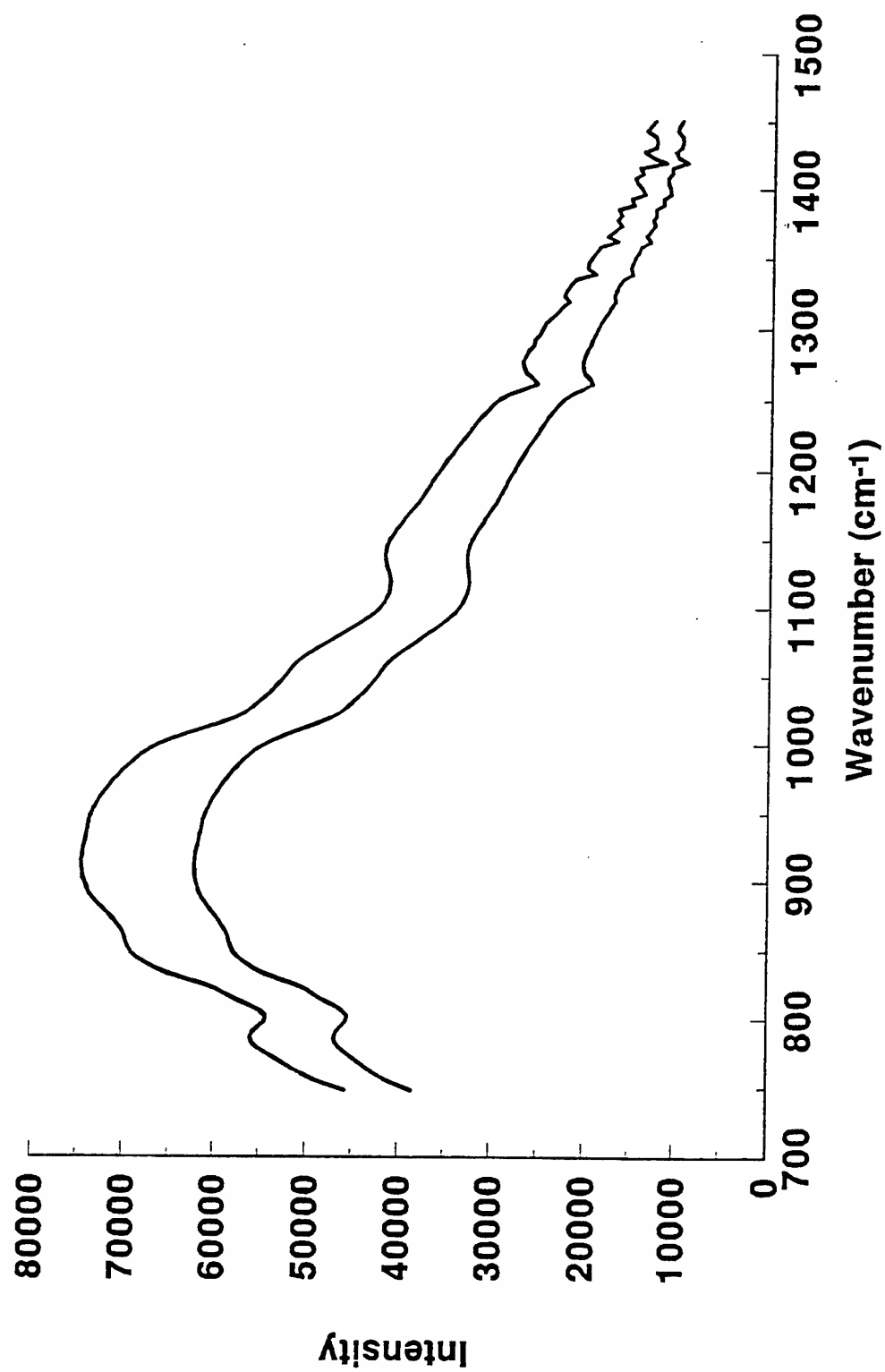
WN	INT	WN	INT
748.245	38545.3	929.521	61745.1
752.102	40090.1	933.378	61660.1
755.959	41395.2	937.234	61522.3
759.816	42468.9	941.091	61409.2
763.672	43295.1	944.948	61291.8
767.529	44049.5	948.805	61079.5
771.386	44829.8	952.662	60801.6
775.243	45662.6	956.519	60504.6
779.1	46365.4	960.376	60174.5
782.957	46826.8	964.233	59790.8
786.814	46885.7	968.09	59378.3
790.671	46620.7	971.947	58991.7
794.528	46134.6	975.804	58483.7
798.385	45626.7	979.661	58004.6
802.242	45532.4	983.518	57429.4
806.099	46024.1	987.375	56899.5
809.956	46988.7	991.232	56250.4
813.813	48138.3	995.088	55499.4
817.669	49079.5	998.945	54555.9
821.526	49940.1	1002.8	53410.9
825.383	51386.8	1006.65	52083.7
829.24	53029.9	1010.51	50551.6
833.097	54500.6	1014.37	48931.1
836.954	55684.8	1018.23	47532.7
840.811	56595.3	1022.08	46492.6
844.668	57294.2	1025.94	45728.2
848.525	57838.2	1029.8	45141.7
852.382	58103.9	1033.65	44544.9
856.239	58295.2	1037.51	43926.4
860.096	58454.9	1041.37	43438.7
863.953	58713.3	1045.22	42933.8
867.81	59125.4	1049.08	42509.1
871.667	59483	1052.94	42079.5
875.524	59958.6	1056.8	41687.6
879.38	60447	1060.65	41121.6
883.237	60914.6	1064.51	40484
887.094	61345.5	1068.37	39722.6
890.951	61660	1072.22	38921.5
894.808	61867.9	1076.08	38028.4
898.665	62009.9	1079.94	37252.9
902.522	62158.8	1083.79	36432.2
906.379	62172.2	1087.65	35649.1
910.236	62225	1091.51	34900.6
914.093	62191.8	1095.36	34256.5
917.95	62119.7	1099.22	33737
921.807	62037	1103.08	33342.9
925.664	61898.2	1106.94	33105.8

Filename: HMA0321  
Subfile: 2890

Type: 30 deg C BB

WN	INT	WN	INT
1110.79	32853.4	1292.07	19631.8
1114.65	32726.5	1295.93	19294.1
1118.51	32674.6	1299.78	18999.8
1122.36	32689.7	1303.64	18710.1
1126.22	32755.6	1307.5	18314
1130.08	32851.3	1311.35	17876.5
1133.93	32917.1	1315.21	17563.7
1137.79	32921.1	1319.07	17161.1
1141.65	32790.7	1322.92	17233
1145.5	32629.6	1326.78	16985.3
1149.36	32361.7	1330.64	16703.9
1153.22	32023.3	1334.49	16305
1157.08	31709.8	1338.35	15258.5
1160.93	31308.5	1342.21	15462.3
1164.79	30993.2	1346.07	15282.1
1168.65	30612.2	1349.92	14973.4
1172.5	30220.2	1353.78	14639.7
1176.36	29800.3	1357.64	14302.5
1180.22	29474.7	1361.49	13278.5
1184.07	29161.4	1365.35	13688.9
1187.93	28855	1369.21	13294.1
1191.79	28562.8	1373.06	12855.8
1195.64	28238.8	1376.92	12979.4
1199.5	27887.8	1380.78	12671.3
1203.36	27533.5	1384.63	12731
1207.22	27225.5	1388.49	11839.6
1211.07	26848.1	1392.35	11850.4
1214.93	26511.8	1396.21	11090.7
1218.79	26133.1	1400.06	11140.9
1222.64	25741.4	1403.92	11362.7
1226.5	25344.8	1407.78	11398.6
1230.36	24996.9	1411.63	10898.9
1234.21	24626.4	1415.49	10970.6
1238.07	24205.2	1419.35	9331.83
1241.93	23764.7	1423.2	10267.9
1245.79	23300.5	1427.06	10570.9
1249.64	22718.7	1430.92	9962.7
1253.5	21871.3	1434.77	9798.7
1257.36	20616.3	1438.63	9872.2
1261.21	19592.6	1442.49	10372.8
1265.07	19901.9	1446.35	10244.2
1268.93	20481.7	1450.2	9868.31
1272.78	20634.7		
1276.64	20641.4		
1280.5	20427.2		
1284.35	20189		
1288.21	19816.4		

**Blackbody Response at 30°C and 50°C**  
**HMA0321**



Filename: HMA0321  
Subfile: 2720

Type: 50 deg C BB

WN	INT	WN	INT
748.245	45774.9	929.521	74164.6
752.102	47581.9	933.378	74078.1
755.959	49126.3	937.234	73953.1
759.816	50401.6	941.091	73885.3
763.672	51429.1	944.948	73756.1
767.529	52324.9	948.805	73559.8
771.386	53287.5	952.662	73270.2
775.243	54290.1	956.519	72940
779.1	55174	960.376	72610
782.957	55749.8	964.233	72194.6
786.814	55877.6	968.09	71718.9
790.671	55575	971.947	71314.9
794.528	55011.7	975.804	70715
798.385	54385.7	979.661	70207.6
802.242	54342.1	983.518	69551.4
806.099	54915.7	987.375	68938.8
809.956	56088.3	991.232	68189.1
813.813	57470.5	995.088	67302.1
817.669	58587.8	998.945	66196.3
821.526	59598.2	1002.8	64822.3
825.383	61310.1	1006.65	63181.4
829.24	63288.3	1010.51	61355.1
833.097	65064	1014.37	59444.6
836.954	66509.8	1018.23	57799.3
840.811	67594.6	1022.08	56658.2
844.668	68500.3	1025.94	55852.8
848.525	69134.8	1029.8	55248.1
852.382	69460	1033.65	54622.1
856.239	69680.4	1037.51	53973.2
860.096	69832	1041.37	53489.1
863.953	70122.6	1045.22	52939.1
867.81	70591.3	1049.08	52502.8
871.667	71012.2	1052.94	52043.8
875.524	71592.4	1056.8	51594.9
879.38	72202.5	1060.65	50996.1
883.237	72772.6	1064.51	50250.8
887.094	73324.7	1068.37	49382.6
890.951	73737.9	1072.22	48439
894.808	74005.1	1076.08	47377.8
898.665	74200.2	1079.94	46468.3
902.522	74399.2	1083.79	45501.7
906.379	74457.4	1087.65	44575.7
910.236	74543.7	1091.51	43666.7
914.093	74561.6	1095.36	42920
917.95	74483.4	1099.22	42307.9
921.807	74456.6	1103.08	41845.3
925.664	74305.7	1106.94	41588.4

Filename: HMA0321  
Subfile: 2720

Type: 50 deg C BB

WN	INT	WN	INT
1110.79	41334.4	1292.07	25812.2
1114.65	41238	1295.93	25312.7
1118.51	41215.1	1299.78	24989.2
1122.36	41298.3	1303.64	24669
1126.22	41425.7	1307.5	24038.3
1130.08	41591.7	1311.35	23370.8
1133.93	41726	1315.21	22895.7
1137.79	41785.2	1319.07	22201.3
1141.65	41707.3	1322.92	22690.4
1145.5	41575.9	1326.78	22399.9
1149.36	41276.5	1330.64	22049.6
1153.22	40900.9	1334.49	21473.6
1157.08	40556.1	1338.35	19391
1160.93	40074.7	1342.21	20174
1164.79	39718.2	1346.07	20156.8
1168.65	39241.5	1349.92	19763.7
1172.5	38744.8	1353.78	19340.5
1176.36	38218.4	1357.64	18849.3
1180.22	37843.7	1361.49	16966.5
1184.07	37479.4	1365.35	17996.6
1187.93	37075.5	1369.21	17277
1191.79	36761.4	1373.06	16614.5
1195.64	36365.5	1376.92	16940.5
1199.5	35905.3	1380.78	16577.2
1203.36	35500.2	1384.63	16885.8
1207.22	35129.1	1388.49	15241.8
1211.07	34620.7	1392.35	15456.7
1214.93	34246.5	1396.21	14027.5
1218.79	33786	1400.06	14319.7
1222.64	33292.7	1403.92	14827.8
1226.5	32788.1	1407.78	15111.6
1230.36	32404.2	1411.63	14242.9
1234.21	31948.6	1415.49	14486
1238.07	31420.4	1419.35	11678
1241.93	30874	1423.2	13168.2
1245.79	30291.9	1427.06	14014.6
1249.64	29588.3	1430.92	12774.8
1253.5	28509.9	1434.77	12670.7
1257.36	26915.8	1438.63	12867.1
1261.21	25514.4	1442.49	13772.4
1265.07	26010	1446.35	13429
1268.93	26719.6	1450.2	12886.9
1272.78	26958.5		
1276.64	27083.7		
1280.5	26794.7		
1284.35	26459.2		
1288.21	25885.1		

Filename: HMA0321  
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT
748.245	35262.3	929.521	36742.5
752.102	36586.7	933.378	35567.4
755.959	36684.3	937.234	35544.2
759.816	35058.4	941.091	36535.7
763.672	34695.9	944.948	36275.7
767.529	35916.2	948.805	39011.6
771.386	35506.4	952.662	36366.8
775.243	37679.5	956.519	35758.9
779.1	37356.5	960.376	34780.1
782.957	36806.3	964.233	33525.5
786.814	35564.3	968.09	34826.5
790.671	36282.6	971.947	37006.1
794.528	38460.8	975.804	36526.9
798.385	39174.3	979.661	33542.1
802.242	36166.1	983.518	32971
806.099	34724.4	987.375	31123.2
809.956	33738.8	991.232	30916.3
813.813	36029.2	995.088	31018.9
817.669	32226.5	998.945	32550.6
821.526	33367.1	1002.8	31894
825.383	35780.7	1006.65	32036.3
829.24	35610.1	1010.51	33939.8
833.097	35365.7	1014.37	32953.6
836.954	36387.6	1018.23	33245.2
840.811	39823.3	1022.08	32355.1
844.668	36448.3	1025.94	31556.8
848.525	40030.6	1029.8	33312.5
852.382	44872	1033.65	31641.1
856.239	39106	1037.51	30714.4
860.096	37779	1041.37	30004.9
863.953	38449.6	1045.22	27937.7
867.81	36567.6	1049.08	31487.7
871.667	40224	1052.94	31857.2
875.524	36500.6	1056.8	31433.5
879.38	39433.3	1060.65	30279.5
883.237	40116	1064.51	27517.2
887.094	41012.1	1068.37	25195.4
890.951	39293.6	1072.22	24273.3
894.808	37113.2	1076.08	23032.3
898.665	36827.4	1079.94	21537.9
902.522	36741.8	1083.79	21167.4
906.379	39166.5	1087.65	19912.5
910.236	40423.6	1091.51	21013.1
914.093	37718.7	1095.36	18085.9
917.95	37168	1099.22	21081.5
921.807	40371.9	1103.08	19477.2
925.664	38370.9	1106.94	21338.7

Filename: HMA0321  
Subfile: 0001

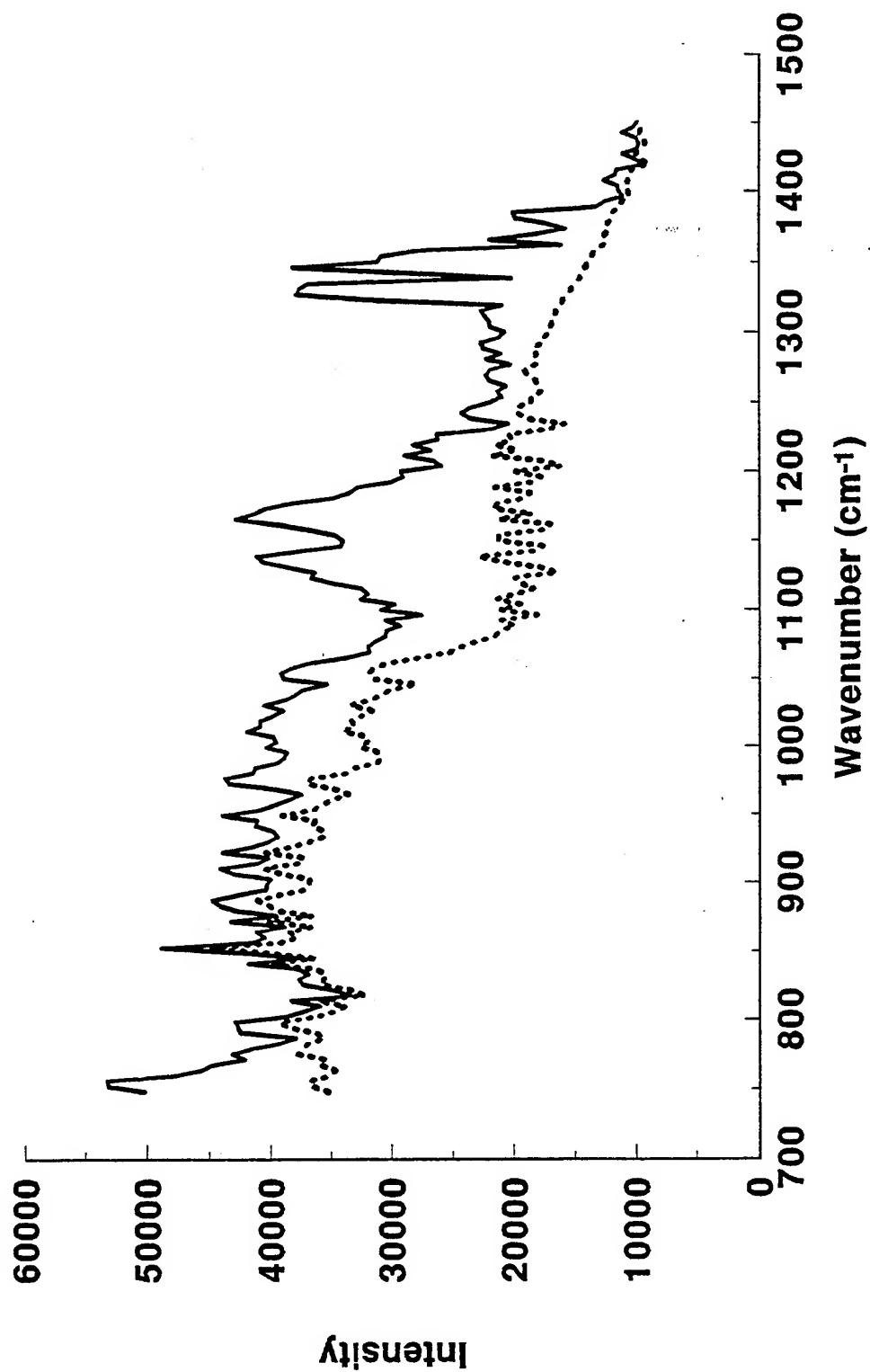
Type: OFF STACK

WN	INT
1110.79	19637.7
1114.65	18294.1
1118.51	19439.6
1122.36	19896.3
1126.22	16428.6
1130.08	17902.6
1133.93	20891.8
1137.79	22783.9
1141.65	18373.1
1145.5	17615.2
1149.36	21209.4
1153.22	21169.9
1157.08	17586.6
1160.93	16924.7
1164.79	21157.3
1168.65	18445.9
1172.5	21655.6
1176.36	21201.5
1180.22	18969.7
1184.07	18635.4
1187.93	21437.1
1191.79	18426
1195.64	17752.6
1199.5	19817.2
1203.36	16059
1207.22	17550.3
1211.07	21757.1
1214.93	19679.9
1218.79	21348.5
1222.64	20041.5
1226.5	20341
1230.36	17070.5
1234.21	15810.3
1238.07	19099.2
1241.93	19578.6
1245.79	19658.6
1249.64	18519.4
1253.5	18480.1
1257.36	17715.1
1261.21	17882.4
1265.07	18123.8
1268.93	18803.9
1272.78	18990.8
1276.64	18124.2
1280.5	18216.5
1284.35	18108.8
1288.21	18358.1

WN	INT
1292.07	17552.7
1295.93	17447.6
1299.78	16999
1303.64	16959.5
1307.5	16803
1311.35	16579.7
1315.21	16493.3
1319.07	16101.4
1322.92	15928.3
1326.78	15598.7
1330.64	15261.4
1334.49	15051.2
1338.35	14498.3
1342.21	14449
1346.07	14042.7
1349.92	13925.7
1353.78	13578.2
1357.64	13259.1
1361.49	12577.7
1365.35	12796.8
1369.21	12459.1
1373.06	12142.4
1376.92	12242.5
1380.78	11840.5
1384.63	11840
1388.49	11236
1392.35	11122.6
1396.21	10487.9
1400.06	10562.1
1403.92	10706.8
1407.78	10602
1411.63	10266.3
1415.49	10291
1419.35	8832.99
1423.2	9720.52
1427.06	9926.12
1430.92	9393.72
1434.77	9199.13
1438.63	9294
1442.49	9623.46
1446.35	9533.06
1450.2	9226.8



**ON and OFF STACK Response**  
**HMA0321**



Filename: HMA0321  
Subfile: 2450

Type: ON STACK

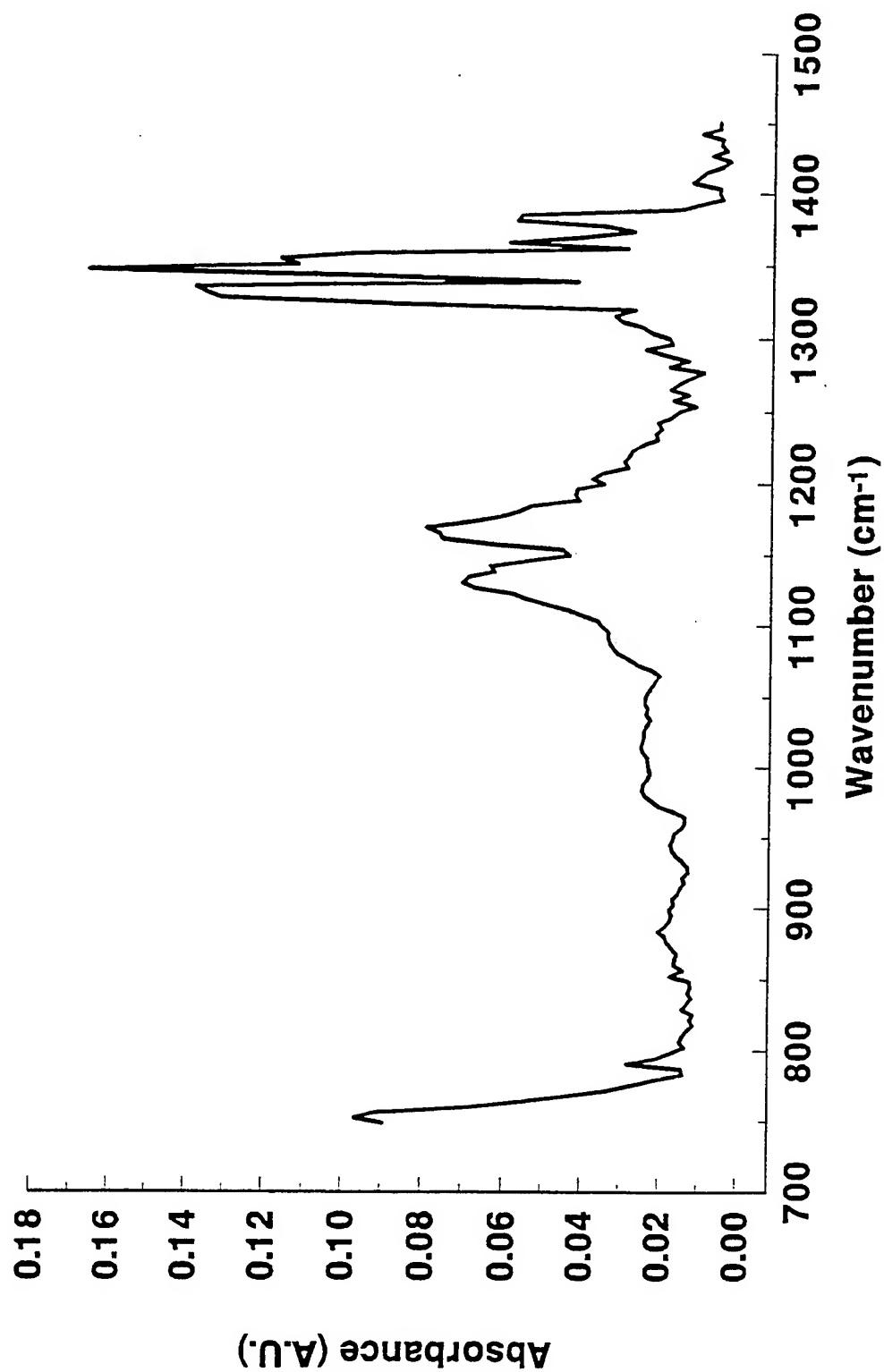
WN	INT	WN	INT
748.245	50228.1	929.521	40187.1
752.102	53101.8	933.378	39383.3
755.959	53188.5	937.234	39784.9
759.816	47729	941.091	41177.7
763.672	45608.3	944.948	41104.9
767.529	44760.7	948.805	43822.8
771.386	42163.9	952.662	40894.6
775.243	43077.5	956.519	39617.5
779.1	41614.9	960.376	38368
782.957	39271.8	964.233	37447.3
786.814	37903.4	968.09	39922.6
790.671	42441.7	971.947	43390.6
794.528	42619.7	975.804	43656.3
798.385	42850.4	979.661	41451.8
802.242	38629.8	983.518	41218.6
806.099	37255.1	987.375	39369.5
809.956	35900.5	991.232	38812.1
813.813	38206.2	995.088	38681.6
817.669	33421.1	998.945	40287
821.526	34790	1002.8	39552.7
825.383	37206.1	1006.65	39756.3
829.24	37609.5	1010.51	41858.9
833.097	36867	1014.37	40826
836.954	37702.2	1018.23	40818
840.811	41792.2	1022.08	39758.3
844.668	37802	1025.94	38941.4
848.525	41824.4	1029.8	40418.3
852.382	48788.3	1033.65	38695.7
856.239	41333.6	1037.51	37929.3
860.096	40481.5	1041.37	37204.9
863.953	41130.3	1045.22	35331
867.81	38863.2	1049.08	38823.6
871.667	43206.7	1052.94	39068.7
875.524	39500.9	1056.8	38215.4
879.38	42806.5	1060.65	36729.7
883.237	44110.6	1064.51	33591.8
887.094	44697.5	1068.37	31794.8
890.951	42758.5	1072.22	31842.3
894.808	40359.2	1076.08	31271.9
898.665	40269.4	1079.94	30441.7
902.522	39992	1083.79	30403.7
906.379	42979.1	1087.65	29291.2
910.236	44017.4	1091.51	30386.7
914.093	41006.6	1095.36	27545.6
917.95	40174.5	1099.22	30757.2
921.807	43870.1	1103.08	29715.6
925.664	41467	1106.94	32428.3

Filename: HMA0321  
Subfile: 2450

Type: ON STACK

WN	INT	WN	INT
1110.79	31910.7	1292.07	22641.2
1114.65	32388.7	1295.93	21157
1118.51	34766.8	1299.78	20733.4
1122.36	36558.8	1303.64	21864.6
1126.22	36311.9	1307.5	21959.3
1130.08	38500.3	1311.35	22339.8
1133.93	40512.7	1315.21	22616.9
1137.79	41069	1319.07	20926.2
1141.65	37620.9	1322.92	31863.6
1145.5	34149	1326.78	37743.6
1149.36	33963.1	1330.64	37521
1153.22	34598.1	1334.49	36804.4
1157.08	36768.3	1338.35	20142.4
1160.93	39344.7	1342.21	29339.5
1164.79	42729.4	1346.07	38038.5
1168.65	41272.4	1349.92	31058.4
1172.5	40411.7	1353.78	30746.1
1176.36	38245.2	1357.64	27756.6
1180.22	34763.2	1361.49	16109.1
1184.07	33350.1	1365.35	21885.5
1187.93	32714.8	1369.21	18158.3
1191.79	30002.8	1373.06	15765.4
1195.64	29043.2	1376.92	17343.7
1199.5	29158.4	1380.78	19823.4
1203.36	25918.4	1384.63	20013.7
1207.22	26532.6	1388.49	13207.5
1211.07	28812.5	1392.35	12543.1
1214.93	26785.7	1396.21	11024.9
1218.79	28115.1	1400.06	11351.8
1222.64	26199.2	1403.92	11442.4
1226.5	26209.8	1407.78	12516.6
1230.36	21802.2	1411.63	11691.8
1234.21	20444.3	1415.49	11484.8
1238.07	23542	1419.35	9267.46
1241.93	24211.3	1423.2	10057.9
1245.79	23492	1427.06	10958.7
1249.64	21872.5	1430.92	9804.71
1253.5	20925.4	1434.77	9721.31
1257.36	21227.8	1438.63	9948.95
1261.21	20599.2	1442.49	11022.8
1265.07	21923.4	1446.35	10174.3
1268.93	22202.8	1450.2	9882.25
1272.78	21865.6		
1276.64	20260.3		
1280.5	22182.1		
1284.35	21053.4		
1288.21	22457.6		

**ABSORBANCE**  
**HMA0319**



Filename: HMA0319

Type:

Absorbance

WN	ABS	WN	ABS
748.245	0.0896277	929.521	0.0129511
752.102	0.0963993	933.378	0.0142007
755.959	0.0918124	937.234	0.0157893
759.816	0.0679708	941.091	0.0168386
763.672	0.0560067	944.948	0.0171322
767.529	0.044526	948.805	0.016512
771.386	0.0336512	952.662	0.0161493
775.243	0.0267962	956.519	0.014416
779.1	0.0209766	960.376	0.013579
782.957	0.0137577	964.233	0.0135771
786.814	0.0140576	968.09	0.0161408
790.671	0.0278631	971.947	0.0200873
794.528	0.0203568	975.804	0.0220497
798.385	0.016858	979.661	0.0237744
802.242	0.0133662	983.518	0.0245875
806.099	0.014417	987.375	0.0243937
809.956	0.0138792	991.232	0.0232554
813.813	0.0128411	995.088	0.0227049
817.669	0.0112571	998.945	0.0229906
821.526	0.011976	1002.8	0.0231028
825.383	0.0113956	1006.65	0.0232904
829.24	0.0138358	1010.51	0.0244148
833.097	0.0126116	1014.37	0.024894
836.954	0.0117417	1018.23	0.0244816
840.811	0.0124338	1022.08	0.0240883
844.668	0.0118608	1025.94	0.024065
848.525	0.0122583	1029.8	0.0232873
852.382	0.0168567	1033.65	0.0226439
856.239	0.0139736	1037.51	0.0235862
860.096	0.0159635	1041.37	0.0233475
863.953	0.0158309	1045.22	0.0239349
867.81	0.0153972	1049.08	0.0238364
871.667	0.0166672	1052.94	0.0232339
875.524	0.0179217	1056.8	0.0221745
879.38	0.0185951	1060.65	0.0212923
883.237	0.0201739	1064.51	0.0202817
887.094	0.0184832	1068.37	0.0223535
890.951	0.017261	1072.22	0.0260903
894.808	0.0169242	1076.08	0.0283608
898.665	0.0173782	1079.94	0.0310202
902.522	0.0162789	1083.79	0.0322373
906.379	0.0165526	1087.65	0.0331395
910.236	0.0152665	1091.51	0.0335863
914.093	0.014537	1095.36	0.0335328
917.95	0.0136435	1099.22	0.0352367
921.807	0.0139158	1103.08	0.0363445
925.664	0.0127321	1106.94	0.040093

Filename: HMA0319

Type:

Absorbance

WN	ABS	WN	ABS
1110.79	0.0438162	1292.07	0.0241718
1114.65	0.0490958	1295.93	0.0176282
1118.51	0.0543667	1299.78	0.0185283
1122.36	0.0580004	1303.64	0.0230903
1126.22	0.0673696	1307.5	0.0251035
1130.08	0.0702158	1311.35	0.0307398
1133.93	0.0688559	1315.21	0.0322964
1137.79	0.0626394	1319.07	0.0273977
1141.65	0.0636316	1322.92	0.0872812
1145.5	0.0541196	1326.78	0.131856
1149.36	0.043606	1330.64	0.13527
1153.22	0.045188	1334.49	0.137898
1157.08	0.0631393	1338.35	0.0421224
1160.93	0.0753574	1342.21	0.0961695
1164.79	0.0762757	1346.07	0.165734
1168.65	0.079259	1349.92	0.112329
1172.5	0.0690847	1353.78	0.116402
1176.36	0.0612232	1357.64	0.0969813
1180.22	0.0566488	1361.49	0.0293851
1184.07	0.0533369	1365.35	0.0594004
1187.93	0.041302	1369.21	0.0412759
1191.79	0.0420482	1373.06	0.027733
1195.64	0.041585	1376.92	0.0347175
1199.5	0.0350746	1380.78	0.0574045
1203.36	0.0376681	1384.63	0.0565072
1207.22	0.0352063	1388.49	0.0154856
1211.07	0.0288068	1392.35	0.0107315
1214.93	0.0296591	1396.21	0.0052432
1218.79	0.0285461	1400.06	0.0058705
1222.64	0.0277308	1403.92	0.0057596
1226.5	0.0253107	1407.78	0.0126529
1230.36	0.0213783	1411.63	0.0110703
1234.21	0.0217318	1415.49	0.0092552
1238.07	0.0202982	1419.35	0.0051758
1241.93	0.0210688	1423.2	0.003335
1245.79	0.0176098	1427.06	0.0076412
1249.64	0.0157298	1430.92	0.0042498
1253.5	0.0116868	1434.77	0.0055281
1257.36	0.0169848	1438.63	0.005309
1261.21	0.0136187	1442.49	0.0102094
1265.07	0.0178058	1446.35	0.0059234
1268.93	0.0156931	1450.2	0.0058665
1272.78	0.0127462		
1276.64	0.0096889		
1280.5	0.0181275		
1284.35	0.0136153		
1288.21	0.0193431		

Filename: HMA0319  
Subfile: 2860

Type: 30 deg C BB

WN	INT	WN	INT
748.245	38440	929.521	61467.8
752.102	39994.4	933.378	61371.6
755.959	41298.8	937.234	61224.6
759.816	42377.1	941.091	61107.3
763.672	43191.3	944.948	60986.1
767.529	43941.2	948.805	60763.4
771.386	44708.7	952.662	60494.8
775.243	45529	956.519	60187.3
779.1	46225.1	960.376	59857.1
782.957	46684.2	964.233	59477.6
786.814	46760.3	968.09	59062.1
790.671	46499.9	971.947	58670.7
794.528	46024.8	975.804	58164.9
798.385	45514.2	979.661	57687.2
802.242	45428.6	983.518	57112.2
806.099	45915.4	987.375	56576
809.956	46868.7	991.232	55928
813.813	47997.3	995.088	55181.2
817.669	48941.4	998.945	54227.4
821.526	49790.4	1002.8	53099.1
825.383	51224.5	1006.65	51775.3
829.24	52865.4	1010.51	50251.6
833.097	54335.2	1014.37	48645.2
836.954	55496.1	1018.23	47252
840.811	56412.6	1022.08	46204.6
844.668	57092	1025.94	45456.1
848.525	57633.7	1029.8	44881.4
852.382	57909.8	1033.65	44277.8
856.239	58090.4	1037.51	43656.3
860.096	58247.3	1041.37	43162
863.953	58504.3	1045.22	42663
867.81	58906	1049.08	42242.9
871.667	59269.1	1052.94	41810.5
875.524	59726.4	1056.8	41417.3
879.38	60225.4	1060.65	40854.3
883.237	60670.2	1064.51	40211.5
887.094	61102.2	1068.37	39462.8
890.951	61412.6	1072.22	38661.1
894.808	61613	1076.08	37767.6
898.665	61749.1	1079.94	36994.2
902.522	61891	1083.79	36184.1
906.379	61900.8	1087.65	35410.3
910.236	61951.3	1091.51	34664.9
914.093	61915	1095.36	34020.3
917.95	61840.5	1099.22	33505
921.807	61762.5	1103.08	33101.8
925.664	61614.3	1106.94	32875.5

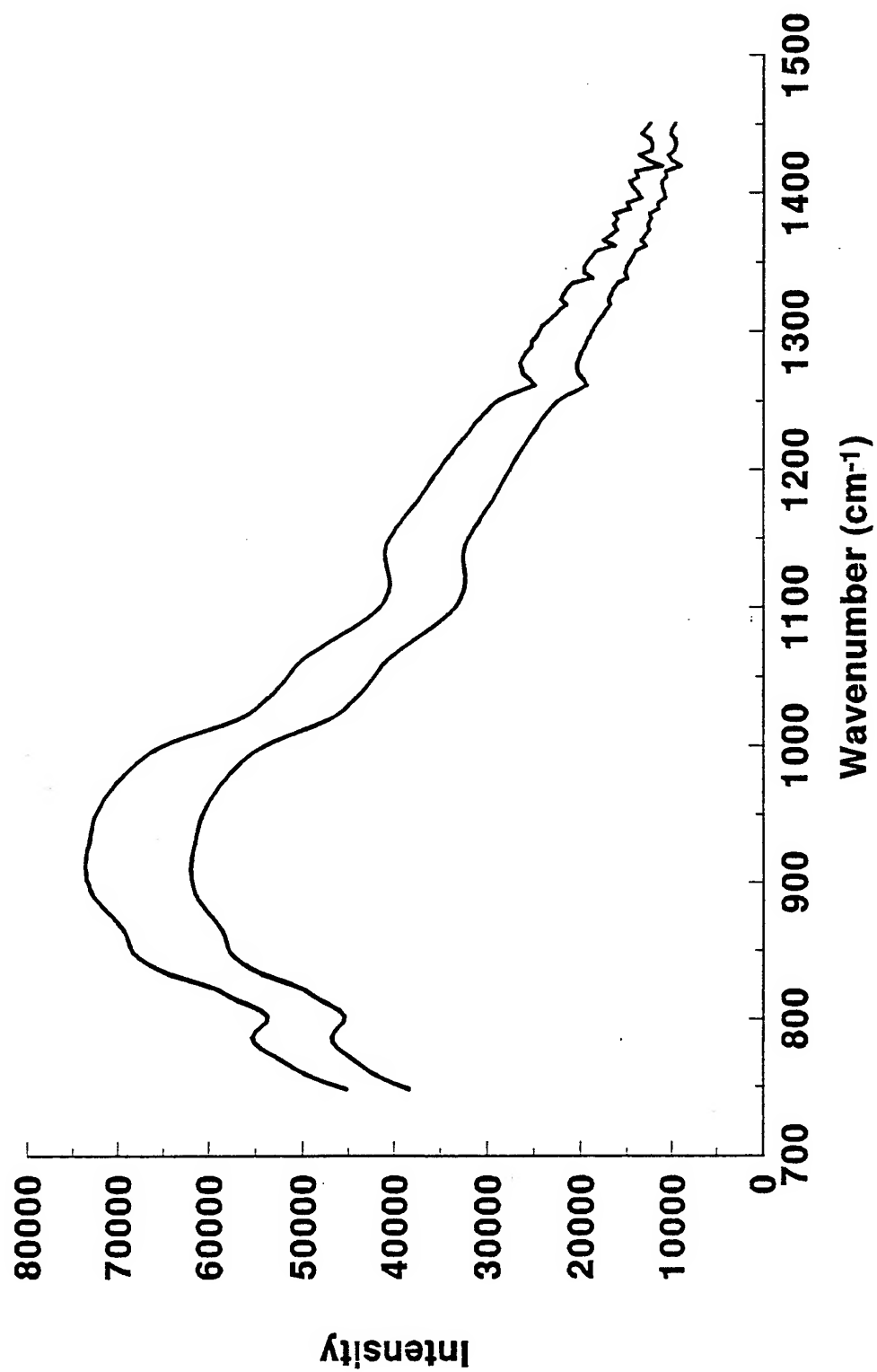
Filename: HMA0319  
Subfile: 2860

Type: 30 deg C BB

WN	INT	WN	INT
1110.79	32620	1292.07	19435.3
1114.65	32498.6	1295.93	19085.2
1118.51	32436.5	1299.78	18794.7
1122.36	32439.5	1303.64	18514.3
1126.22	32511	1307.5	18109.6
1130.08	32604.9	1311.35	17674.2
1133.93	32666	1315.21	17355.5
1137.79	32670.9	1319.07	16936.8
1141.65	32539.6	1322.92	17036.5
1145.5	32381.5	1326.78	16791.5
1149.36	32117.7	1330.64	16518.4
1153.22	31773.4	1334.49	16119.2
1157.08	31460.9	1338.35	15009.1
1160.93	31051.7	1342.21	15260.2
1164.79	30744.3	1346.07	15099.3
1168.65	30356.9	1349.92	14789.5
1172.5	29981.9	1353.78	14461.8
1176.36	29558.6	1357.64	14121.9
1180.22	29237.4	1361.49	13044.5
1184.07	28920.7	1365.35	13502.8
1187.93	28609.6	1369.21	13094.5
1191.79	28326.5	1373.06	12643.7
1195.64	28002.2	1376.92	12793.6
1199.5	27648.1	1380.78	12490
1203.36	27305.3	1384.63	12558.9
1207.22	26996.4	1388.49	11645.4
1211.07	26616.9	1392.35	11662.6
1214.93	26280.1	1396.21	10874.5
1218.79	25917.1	1400.06	10951.2
1222.64	25521.2	1403.92	11184.8
1226.5	25120.2	1407.78	11246.3
1230.36	24772.7	1411.63	10734.4
1234.21	24407.9	1415.49	10815.1
1238.07	23992.8	1419.35	9144.67
1241.93	23553.1	1423.2	10082.4
1245.79	23090.7	1427.06	10425
1249.64	22507.3	1430.92	9773.71
1253.5	21676.7	1434.77	9611.19
1257.36	20424.2	1438.63	9718.14
1261.21	19400.1	1442.49	10220.7
1265.07	19713.5	1446.35	10074.9
1268.93	20274.5	1450.2	9709.13
1272.78	20428.9		
1276.64	20430.9		
1280.5	20221.3		
1284.35	19977.3		
1288.21	19599.9		



**Blackbody Response at 30°C and 50°C**  
**HMA0319**



Filename: HMA0319  
Subfile: 2710

Type: 50 deg C BB

WN	INT	WN	INT
748.245	45287	929.521	73209.7
752.102	47098	933.378	73119.8
755.959	48626.9	937.234	72983.6
759.816	49896	941.091	72905.2
763.672	50915.9	944.948	72781.2
767.529	51800.6	948.805	72578.7
771.386	52742.3	952.662	72279.9
775.243	53734.9	956.519	71954.3
779.1	54598.4	960.376	71612.5
782.957	55165.8	964.233	71202
786.814	55300.1	968.09	70731.3
790.671	55003.2	971.947	70309
794.528	54455.1	975.804	69729.2
798.385	53831.9	979.661	69217.5
802.242	53788.1	983.518	68563.2
806.099	54359.3	987.375	67951.8
809.956	55522	991.232	67206.7
813.813	56870.3	995.088	66330.5
817.669	57986	998.945	65231
821.526	58977.7	1002.8	63868.6
825.383	60667.5	1006.65	62251.7
829.24	62623.4	1010.51	60447.6
833.097	64362.6	1014.37	58566.3
836.954	65788.6	1018.23	56952.4
840.811	66860.4	1022.08	55811.7
844.668	67741.5	1025.94	55028.5
848.525	68364	1029.8	54429.4
852.382	68686.3	1033.65	53811.9
856.239	68892.9	1037.51	53146.6
860.096	69037.9	1041.37	52667.7
863.953	69327.3	1045.22	52121.9
867.81	69780.6	1049.08	51696.4
871.667	70193	1052.94	51237
875.524	70749.2	1056.8	50788.8
879.38	71349.6	1060.65	50192.8
883.237	71906	1064.51	49461.5
887.094	72441.3	1068.37	48591.8
890.951	72854.5	1072.22	47671.8
894.808	73105.3	1076.08	46620.7
898.665	73291.1	1079.94	45714.3
902.522	73494.7	1083.79	44770
906.379	73541.8	1087.65	43850.4
910.236	73615.5	1091.51	42954.1
914.093	73624.9	1095.36	42213.1
917.95	73544.7	1099.22	41614.4
921.807	73498.7	1103.08	41143.5
925.664	73354.7	1106.94	40900.8

Filename: HMA0319  
Subfile: 2710

Type: 50 deg C BB

WN	INT	WN	INT
1110.79	40638.1	1292.07	25260.7
1114.65	40542.1	1295.93	24757.9
1118.51	40510.9	1299.78	24447.1
1122.36	40585.5	1303.64	24138.6
1126.22	40707.7	1307.5	23495.6
1130.08	40866.4	1311.35	22826.2
1133.93	40986.6	1315.21	22346.1
1137.79	41048.5	1319.07	21639.9
1141.65	40964.4	1322.92	22173.1
1145.5	40836.4	1326.78	21890.9
1149.36	40542	1330.64	21543.4
1153.22	40160.8	1334.49	20980.9
1157.08	39830.5	1338.35	18819.8
1160.93	39342.8	1342.21	19670.5
1164.79	38993	1346.07	19681.2
1168.65	38516.6	1349.92	19290.8
1172.5	38028.4	1353.78	18880
1176.36	37501.2	1357.64	18387.5
1180.22	37138.5	1361.49	16461.2
1184.07	36771	1365.35	17547.3
1187.93	36374.1	1369.21	16812.4
1191.79	36063.2	1373.06	16141
1195.64	35681.4	1376.92	16499.7
1199.5	35224.4	1380.78	16130.8
1203.36	34829.3	1384.63	16449.9
1207.22	34457.2	1388.49	14798.9
1211.07	33946.5	1392.35	15014.4
1214.93	33580.5	1396.21	13574.9
1218.79	33129.9	1400.06	13895.2
1222.64	32644.9	1403.92	14410.9
1226.5	32135.1	1407.78	14726.4
1230.36	31757.9	1411.63	13846.7
1234.21	31320.1	1415.49	14092.4
1238.07	30787.9	1419.35	11284.7
1241.93	30249.3	1423.2	12767.9
1245.79	29680.3	1427.06	13645.6
1249.64	28992.9	1430.92	12385
1253.5	27934.5	1434.77	12269.8
1257.36	26370.8	1438.63	12508.1
1261.21	24981.2	1442.49	13411.2
1265.07	25469.7	1446.35	13042
1268.93	26154.2	1450.2	12528.1
1272.78	26361.7		
1276.64	26514.8		
1280.5	26230.1		
1284.35	25897.3		
1288.21	25309.8		

Filename: HMA0319  
Subfile: 0001

Type: OFF STACK

WN	INT
748.245	34698.8
752.102	35994.6
755.959	35978.1
759.816	34054.8
763.672	33592.8
767.529	34805.8
771.386	34262.4
775.243	36537.1
779.1	36098.8
782.957	35448.5
786.814	34069.3
790.671	34964.8
794.528	37380.1
798.385	38227.9
802.242	34881.8
806.099	33306.8
809.956	32138.3
813.813	34527.1
817.669	30344.5
821.526	31473.4
825.383	33968.2
829.24	33647.2
833.097	33296.4
836.954	34239.6
840.811	37921.9
844.668	34291.2
848.525	38097.3
852.382	43311.3
856.239	37059.2
860.096	35622.9
863.953	36332.7
867.81	34394.8
871.667	38219.3
875.524	34216.4
879.38	37292.9
883.237	37979.5
887.094	38985.6
890.951	37167.2
894.808	34839.7
898.665	34504.7
902.522	34442.4
906.379	37049.9
910.236	38396.5
914.093	35587.3
917.95	35026.4
921.807	38487.2
925.664	36556.7

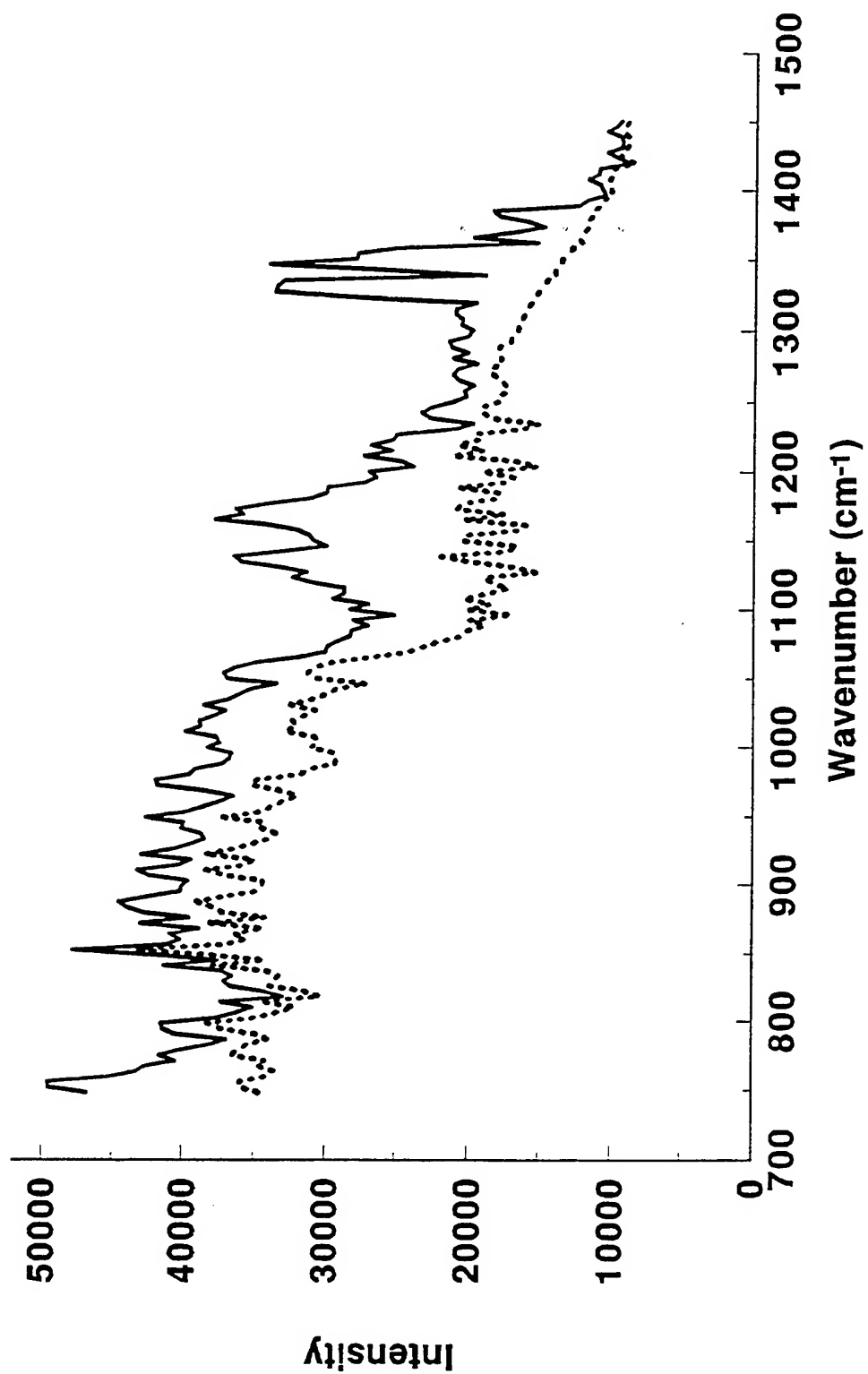
WN	INT
929.521	35190.9
933.378	33864.1
937.234	33579.4
941.091	34514.7
944.948	34302
948.805	37199.2
952.662	34473.8
956.519	33840
960.376	32942.6
964.233	32035.2
968.09	33426.8
971.947	35300.7
975.804	34774.7
979.661	31762.4
983.518	31175.5
987.375	29350.1
991.232	29299.3
995.088	29439.2
998.945	31075.2
1002.8	30484.9
1006.65	30860.9
1010.51	32902
1014.37	32015.8
1018.23	32376.7
1022.08	31568.3
1025.94	30806.9
1029.8	32560.5
1033.65	31036.3
1037.51	30001.2
1041.37	29240.2
1045.22	27164.8
1049.08	30843.2
1052.94	31321.6
1056.8	30813.8
1060.65	29607.5
1064.51	26731
1068.37	24238.9
1072.22	23234.6
1076.08	22021.2
1079.94	20488.5
1083.79	20208.8
1087.65	18891.4
1091.51	20027
1095.36	17045.2
1099.22	20099
1103.08	18533.2
1106.94	20367.5

Filename: HMA0319  
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT
1110.79	18647	1292.07	17225
1114.65	17274.2	1295.93	17105.3
1118.51	18455.7	1299.78	16682.3
1122.36	18981.3	1303.64	16642.4
1126.22	15365.7	1307.5	16455.4
1130.08	16871.9	1311.35	16221.1
1133.93	19968.4	1315.21	16119.1
1137.79	21933.2	1319.07	15714.8
1141.65	17412.9	1322.92	15598.9
1145.5	16630.2	1326.78	15292.5
1149.36	20354.9	1330.64	14958.5
1153.22	20332.2	1334.49	14737.5
1157.08	16721.5	1338.35	14127.2
1160.93	16034.7	1342.21	14119.3
1164.79	20365.3	1346.07	13751.1
1168.65	17551.5	1349.92	13624.8
1172.5	20893.9	1353.78	13275
1176.36	20438.7	1357.64	12959.9
1180.22	18164.1	1361.49	12238.8
1184.07	17836	1365.35	12501.9
1187.93	20715.6	1369.21	12151.7
1191.79	17646.9	1373.06	11821.4
1195.64	16958.9	1376.92	11945.5
1199.5	19098.8	1380.78	11559.5
1203.36	15267.8	1384.63	11558.9
1207.22	16767.1	1388.49	10944.8
1211.07	21175.7	1392.35	10832.1
1214.93	19002.9	1396.21	10190
1218.79	20783.3	1400.06	10279.3
1222.64	19459.7	1403.92	10418.2
1226.5	19762.2	1407.78	10349.3
1230.36	16457.5	1411.63	9994.7
1234.21	15159.6	1415.49	10026.9
1238.07	18588.5	1419.35	8577.65
1241.93	19108.8	1423.2	9437.85
1245.79	19207.5	1427.06	9672.8
1249.64	18077.1	1430.92	9132.01
1253.5	18082.9	1434.77	8927.76
1257.36	17351.8	1438.63	9050.17
1261.21	17531.1	1442.49	9382.54
1265.07	17783.8	1446.35	9270.76
1268.93	18419.2	1450.2	8977.59
1272.78	18599.7		
1276.64	17784		
1280.5	17874.6		
1284.35	17763.4		
1288.21	17989.1		

**ON and OFF STACK Response**  
**HMA0319**



Filename: HMA0319  
Subfile: 0300

Type: ON STACK

WN	INT	WN	INT
748.245	46845.3	929.521	39432.2
752.102	49499.4	933.378	38559.5
755.959	49570.7	937.234	38810.4
759.816	45095.5	941.091	40073.4
763.672	43211.9	944.948	39970.3
767.529	42642.6	948.805	42569.1
771.386	40486.7	952.662	39817.9
775.243	41549.5	956.519	38635
779.1	40182.5	960.376	37487.2
782.957	38220.1	964.233	36595.4
786.814	36969.6	968.09	38757.1
790.671	40542.1	971.947	41802
794.528	41335.2	975.804	41874.1
798.385	41432	979.661	39535.2
802.242	37548.4	983.518	39179.5
806.099	36278.5	987.375	37337.8
809.956	35134.9	991.232	36856.6
813.813	37331.5	995.088	36723.9
817.669	32984.8	998.945	38252.7
821.526	34314.3	1002.8	37556.7
825.383	36713.3	1006.65	37753.7
829.24	37132.2	1010.51	39776.9
833.097	36608.9	1014.37	38834.8
836.954	37405.5	1018.23	38876.2
840.811	41242.1	1022.08	37914.8
844.668	37634.9	1025.94	37143.1
848.525	41488.9	1029.8	38576.8
852.382	47789.1	1033.65	36944.3
856.239	41003.1	1037.51	36160.1
860.096	40180.8	1041.37	35375.9
863.953	40857.6	1045.22	33523.3
867.81	38905.8	1049.08	36969.4
871.667	42992.8	1052.94	37249.1
875.524	39571.6	1056.8	36467.8
879.38	42789.7	1060.65	35069.1
883.237	43983	1064.51	32009.7
887.094	44526.3	1068.37	30077.7
890.951	42481.9	1072.22	29972
894.808	40179.1	1076.08	29253
898.665	40033.5	1079.94	28343.6
902.522	39668.5	1083.79	28234.9
906.379	42290	1087.65	27073.1
910.236	43209.9	1091.51	28068.2
914.093	40290.5	1095.36	25186.3
917.95	39467.6	1099.22	28305.9
921.807	42923.7	1103.08	27040
925.664	40682.8	1106.94	29536.5

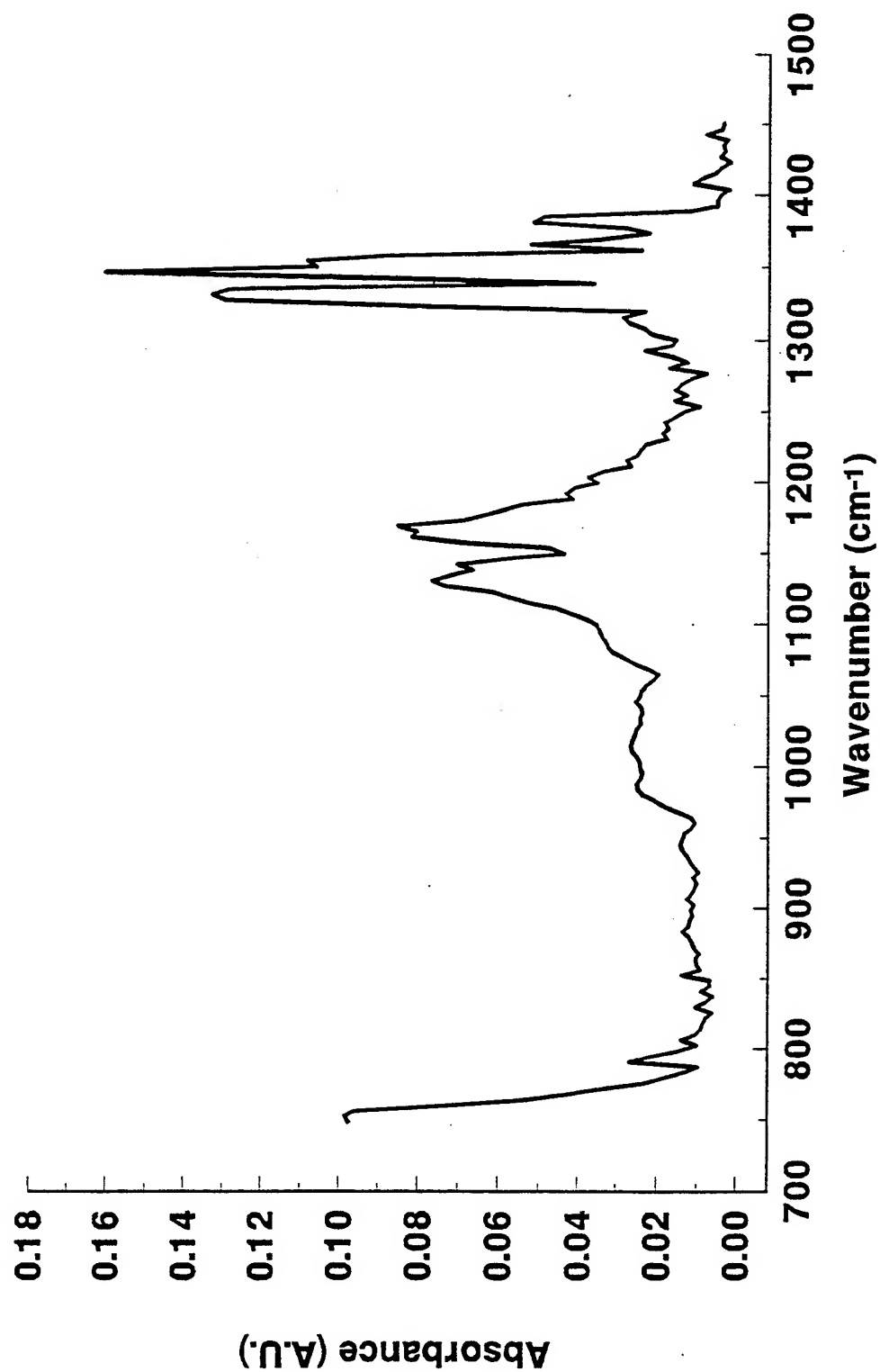
Filename: HMA0319  
Subfile: 0300

Type: ON STACK

WN	INT	WN	INT
1110.79	28782.9	1292.07	21484.8
1114.65	28756.8	1295.93	20155.2
1118.51	31022	1299.78	19888.5
1122.36	32403.8	1303.64	20597.4
1126.22	31445.8	1307.5	20568.1
1130.08	33519.9	1311.35	21013
1133.93	36015	1315.21	20989.8
1137.79	36496.8	1319.07	19645.7
1141.65	32902.3	1322.92	28441
1145.5	30093.9	1326.78	33703
1149.36	30944.6	1330.64	33579.2
1153.22	31240.1	1334.49	33070.6
1157.08	32114	1338.35	19005.9
1160.93	34097.6	1342.21	26313.5
1164.79	37847.2	1346.07	34097.7
1168.65	35932	1349.92	27991.6
1172.5	36394.2	1353.78	27876.9
1176.36	34174.1	1357.64	24999.9
1180.22	31150.7	1361.49	15392.8
1184.07	30071.8	1365.35	19825.6
1187.93	29961.9	1369.21	16943.1
1191.79	27303.6	1373.06	14902
1195.64	26508.7	1376.92	16010.6
1199.5	26943.6	1380.78	18027.1
1203.36	23927.3	1384.63	18391.4
1207.22	24703.2	1388.49	12535.7
1211.07	27323	1392.35	12016.1
1214.93	25441	1396.21	10660.7
1218.79	26799.3	1400.06	10854.1
1222.64	25314.6	1403.92	11038.6
1226.5	25019.1	1407.78	11814.4
1230.36	21054.3	1411.63	11145.1
1234.21	19844.2	1415.49	11045.2
1238.07	22740.2	1419.35	8953.05
1241.93	23321.9	1423.2	9742.46
1245.79	22677	1427.06	10507.8
1249.64	21164.2	1430.92	9511.54
1253.5	20294.6	1434.77	9431.61
1257.36	20383.3	1438.63	9559.07
1261.21	19796.5	1442.49	10500.5
1265.07	20833.1	1446.35	9879.22
1268.93	21175	1450.2	9551.53
1272.78	20871.3		
1276.64	19583.2		
1280.5	21166.1		
1284.35	20215.8		
1288.21	21314.6		



**ABSORBANCE**  
**HMA0406**



Filename: HMA0406

Type: Absorbance

WN	ABS	WN	ABS
748.245	0.0975269	929.521	0.0109927
752.102	0.0982212	933.378	0.0119724
755.959	0.0960469	937.234	0.0127415
759.816	0.0709178	941.091	0.0138413
763.672	0.0528401	944.948	0.0143201
767.529	0.0426955	948.805	0.0138265
771.386	0.033698	952.662	0.0133941
775.243	0.0229296	956.519	0.0116641
779.1	0.0184408	960.376	0.0107634
782.957	0.0135024	964.233	0.0118021
786.814	0.0099973	968.09	0.015056
790.671	0.0264936	971.947	0.018332
794.528	0.0210921	975.804	0.0207027
798.385	0.0147272	979.661	0.0232662
802.242	0.0102917	983.518	0.0245042
806.099	0.0138595	987.375	0.0247841
809.956	0.010393	991.232	0.0240017
813.813	0.0091086	995.088	0.0236437
817.669	0.0085365	998.945	0.0240295
821.526	0.0077541	1002.8	0.0241365
825.383	0.0063719	1006.65	0.0248951
829.24	0.0103282	1010.51	0.0260784
833.097	0.007826	1014.37	0.0263422
836.954	0.0061716	1018.23	0.0258414
840.811	0.0087946	1022.08	0.0252617
844.668	0.0068821	1025.94	0.0249482
848.525	0.0069743	1029.8	0.0239638
852.382	0.013788	1033.65	0.0240296
856.239	0.0093731	1037.51	0.0236174
860.096	0.0102302	1041.37	0.0238931
863.953	0.0104813	1045.22	0.0249841
867.81	0.0097247	1049.08	0.0241872
871.667	0.0108576	1052.94	0.0237571
875.524	0.0113719	1056.8	0.0226465
879.38	0.0122195	1060.65	0.0210385
883.237	0.0136244	1064.51	0.0198156
887.094	0.012467	1068.37	0.0222984
890.951	0.0119168	1072.22	0.0253719
894.808	0.0114034	1076.08	0.0279332
898.665	0.0117619	1079.94	0.0309029
902.522	0.0110445	1083.79	0.0322343
906.379	0.0125374	1087.65	0.0328078
910.236	0.0115826	1091.51	0.0338062
914.093	0.0107275	1095.36	0.0343465
917.95	0.0102135	1099.22	0.0351346
921.807	0.0110339	1103.08	0.0378612
925.664	0.0097752	1106.94	0.0415933

Filename: HMA0406

Type:

Absorbance

WN	ABS
1110.79	0.0454276
1114.65	0.0525006
1118.51	0.0575046
1122.36	0.0616853
1126.22	0.0733385
1130.08	0.0763558
1133.93	0.071787
1137.79	0.0666554
1141.65	0.0700085
1145.5	0.0587007
1149.36	0.0437516
1153.22	0.0475658
1157.08	0.0691369
1160.93	0.0815185
1164.79	0.0804406
1168.65	0.0848949
1172.5	0.0692059
1176.36	0.0636951
1180.22	0.0588256
1184.07	0.0538701
1187.93	0.0416737
1191.79	0.043112
1195.64	0.0412028
1199.5	0.0351059
1203.36	0.0373741
1207.22	0.0334942
1211.07	0.026544
1214.93	0.0274129
1218.79	0.0249195
1222.64	0.0240027
1226.5	0.0228708
1230.36	0.0179283
1234.21	0.0186901
1238.07	0.0175629
1241.93	0.0182282
1245.79	0.0158694
1249.64	0.0138017
1253.5	0.0097346
1257.36	0.0158669
1261.21	0.0131426
1265.07	0.0156119
1268.93	0.0143687
1272.78	0.0119531
1276.64	0.0080807
1280.5	0.0170507
1284.35	0.0130459
1288.21	0.0167518

WN	ABS
1292.07	0.0230547
1295.93	0.0165687
1299.78	0.0157926
1303.64	0.0217749
1307.5	0.0234503
1311.35	0.0268982
1315.21	0.0283597
1319.07	0.0233392
1322.92	0.0813584
1326.78	0.129072
1330.64	0.132524
1334.49	0.128237
1338.35	0.0361687
1342.21	0.0911417
1346.07	0.160139
1349.92	0.105949
1353.78	0.108205
1357.64	0.087284
1361.49	0.0242532
1365.35	0.0521066
1369.21	0.0338054
1373.06	0.0224596
1376.92	0.0275186
1380.78	0.0512451
1384.63	0.0489438
1388.49	0.0121065
1392.35	0.005115
1396.21	0.0051079
1400.06	0.0042803
1403.92	0.0023048
1407.78	0.0111983
1411.63	0.009031
1415.49	0.0056493
1419.35	0.0041035
1423.2	0.0019738
1427.06	0.00431
1430.92	0.0032147
1434.77	0.0036374
1438.63	0.0027809
1442.49	0.0077673
1446.35	0.0039734
1450.2	0.0035661

Filename: HMA0406  
Subfile: 0001

Type: 31 deg C BB

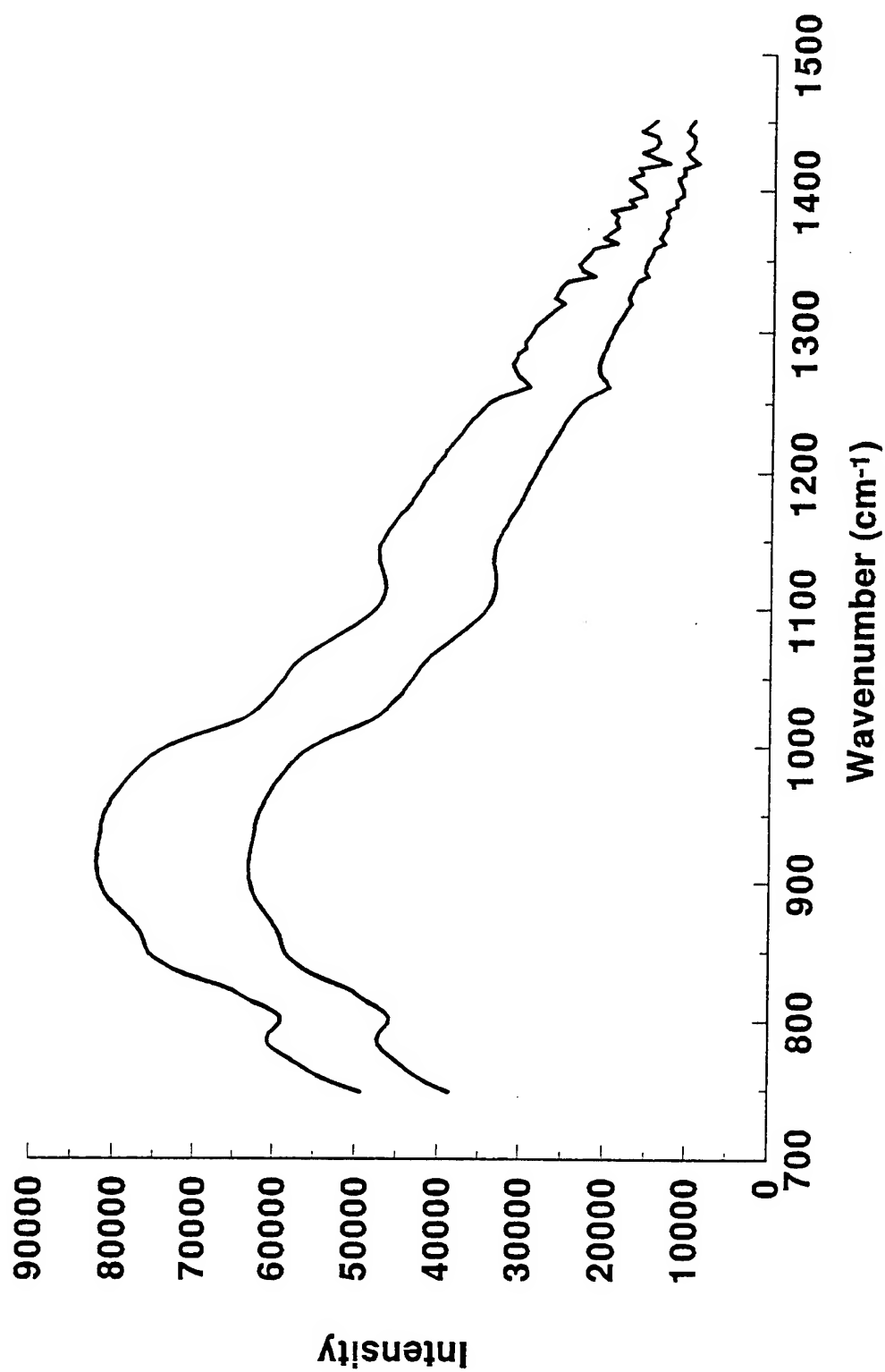
WN	INT	WN	INT
748.245	38719.7	929.521	62677.4
752.102	40273.2	933.378	62560
755.959	41642.3	937.234	62434.6
759.816	42752.2	941.091	62373.8
763.672	43603.2	944.948	62217
767.529	44370.2	948.805	62010.4
771.386	45181.8	952.662	61757.9
775.243	46024.3	956.519	61410.6
779.1	46757.9	960.376	61122.8
782.957	47248.5	964.233	60734.9
786.814	47319.1	968.09	60294.7
790.671	47066.9	971.947	59916.9
794.528	46540.6	975.804	59406.7
798.385	46010.9	979.661	58924
802.242	45943.8	983.518	58358.5
806.099	46439.1	987.375	57819.2
809.956	47415.5	991.232	57164.6
813.813	48629	995.088	56400.2
817.669	49575.9	998.945	55441
821.526	50435.3	1002.8	54262.2
825.383	51915	1006.65	52918.4
829.24	53595.7	1010.51	51363.6
833.097	55090.5	1014.37	49723
836.954	56367.3	1018.23	48278.3
840.811	57254	1022.08	47233
844.668	57998.8	1025.94	46475.2
848.525	58590.9	1029.8	45884.3
852.382	58871.9	1033.65	45249.5
856.239	59046.5	1037.51	44655.6
860.096	59246.9	1041.37	44197.5
863.953	59516.5	1045.22	43666.7
867.81	59931.9	1049.08	43235
871.667	60323.2	1052.94	42830
875.524	60835.1	1056.8	42408
879.38	61311.3	1060.65	41841.3
883.237	61814.7	1064.51	41235
887.094	62256.5	1068.37	40427.2
890.951	62556.8	1072.22	39611
894.808	62776.6	1076.08	38711.2
898.665	62911.2	1079.94	37915.4
902.522	63086	1083.79	37087.9
906.379	63092.1	1087.65	36292.6
910.236	63156.4	1091.51	35519.2
914.093	63125.6	1095.36	34859.2
917.95	63048.9	1099.22	34351.5
921.807	62962.3	1103.08	33940
925.664	62829.2	1106.94	33687.5

Filename: HMA0406  
Subfile: 0001

Type: 31 deg C BB

WN	INT	WN	INT
1110.79	33447.5	1292.07	20098.2
1114.65	33325.4	1295.93	19753.5
1118.51	33273.6	1299.78	19453.1
1122.36	33311.4	1303.64	19164.3
1126.22	33363.6	1307.5	18729
1130.08	33484.6	1311.35	18252.9
1133.93	33574.2	1315.21	17908.7
1137.79	33549	1319.07	17454.1
1141.65	33442.3	1322.92	17637.7
1145.5	33295.6	1326.78	17386.4
1149.36	32990.6	1330.64	17086.7
1153.22	32667.6	1334.49	16693.8
1157.08	32359.4	1338.35	15385.3
1160.93	31930.9	1342.21	15718
1164.79	31643.7	1346.07	15654.4
1168.65	31257.1	1349.92	15324.6
1172.5	30818.3	1353.78	14913.1
1176.36	30428.8	1357.64	14617.3
1180.22	30109.3	1361.49	13405.4
1184.07	29770.7	1365.35	13878.9
1187.93	29466.5	1369.21	13526.5
1191.79	29188.2	1373.06	13043.2
1195.64	28840.1	1376.92	13117.5
1199.5	28480	1380.78	12891.4
1203.36	28154.9	1384.63	13047.5
1207.22	27807	1388.49	11875.9
1211.07	27431	1392.35	11979.5
1214.93	27104	1396.21	11166.5
1218.79	26708.8	1400.06	11140.3
1222.64	26304.6	1403.92	11460.5
1226.5	25909.3	1407.78	11688.4
1230.36	25551.4	1411.63	10975.8
1234.21	25194.9	1415.49	11067.5
1238.07	24771.7	1419.35	9318.37
1241.93	24291.1	1423.2	10249.2
1245.79	23840.2	1427.06	10698.7
1249.64	23257	1430.92	10088.6
1253.5	22366.9	1434.77	9783.07
1257.36	21077.6	1438.63	9880.46
1261.21	19992.6	1442.49	10643.3
1265.07	20321.1	1446.35	10345.1
1268.93	20909.4	1450.2	9883.26
1272.78	21101.8		
1276.64	21103.8		
1280.5	20902		
1284.35	20664.5		
1288.21	20247.2		

**Blackbody Response at 31°C and 60°C**  
**HMA0406**



Filename: HMA0406  
Subfile: 0160

Type: 60 deg C BB

WN	INT	WN	INT
748.245	49379.6	929.521	81816.3
752.102	51343.1	933.378	81697.4
755.959	53066.8	937.234	81577.2
759.816	54554.6	941.091	81630.5
763.672	55675.4	944.948	81456.1
767.529	56647.6	948.805	81266.6
771.386	57802.1	952.662	81007
775.243	58881.9	956.519	80622.5
779.1	59862.9	960.376	80332
782.957	60566.8	964.233	79918.2
786.814	60744.7	968.09	79371.2
790.671	60430.9	971.947	78952.2
794.528	59779.8	975.804	78376.5
798.385	59116.8	979.661	77828.9
802.242	59104.1	983.518	77133.5
806.099	59760.2	987.375	76464.1
809.956	61038.9	991.232	75671.9
813.813	62667.1	995.088	74671.6
817.669	63855.8	998.945	73511.4
821.526	64968.6	1002.8	71936.6
825.383	66863.5	1006.65	70163.9
829.24	69084	1010.51	68138.6
833.097	71025	1014.37	66022.7
836.954	72754.4	1018.23	64211.4
840.811	73927.5	1022.08	63042.4
844.668	74968.2	1025.94	62196.7
848.525	75728	1029.8	61557.9
852.382	76095.7	1033.65	60902.6
856.239	76302.5	1037.51	60254.7
860.096	76540.4	1041.37	59800.7
863.953	76880.4	1045.22	59218.5
867.81	77392.3	1049.08	58752.9
871.667	77922.4	1052.94	58304.8
875.524	78624.6	1056.8	57858.3
879.38	79254.7	1060.65	57200.1
883.237	79964.4	1064.51	56439.9
887.094	80602.1	1068.37	55480.6
890.951	81063	1072.22	54424.9
894.808	81412	1076.08	53278.6
898.665	81630.5	1079.94	52303.6
902.522	81871.1	1083.79	51213.6
906.379	81967.9	1087.65	50204.7
910.236	82087.5	1091.51	49216
914.093	82114.6	1095.36	48397.3
917.95	82086.1	1099.22	47738.5
921.807	82059.1	1103.08	47235.5
925.664	81914.9	1106.94	46948.1

Filename: HMA0406  
Subfile: 0160

Type: 60 deg C BB

WN	INT	WN	INT
1110.79	46721.3	1292.07	29937.8
1114.65	46647.2	1295.93	29400.7
1118.51	46676.8	1299.78	29025.4
1122.36	46815.6	1303.64	28655.7
1126.22	46979.9	1307.5	27873.5
1130.08	47210.4	1311.35	26991.3
1133.93	47431.4	1315.21	26274.9
1137.79	47468	1319.07	25371.1
1141.65	47472.7	1322.92	26371.2
1145.5	47388.6	1326.78	26015.1
1149.36	46999.9	1330.64	25634.7
1153.22	46649.1	1334.49	24962.8
1157.08	46287.3	1338.35	21734.8
1160.93	45758.2	1342.21	23123.9
1164.79	45383.6	1346.07	23519.3
1168.65	44903.3	1349.92	22965.8
1172.5	44240.5	1353.78	22331.3
1176.36	43693.1	1357.64	21879.1
1180.22	43369.2	1361.49	19154.3
1184.07	42913.8	1365.35	20614.9
1187.93	42458.4	1369.21	19840.5
1191.79	42172.5	1373.06	18978.6
1195.64	41710.5	1376.92	19240.4
1199.5	41162.3	1380.78	19063.8
1203.36	40831.1	1384.63	19768.6
1207.22	40353.5	1388.49	17052.7
1211.07	39749	1392.35	17632.2
1214.93	39426.6	1396.21	15745
1218.79	38835.8	1400.06	15944.1
1222.64	38293.1	1403.92	16855.8
1226.5	37769.7	1407.78	17659.3
1230.36	37328.5	1411.63	16132.7
1234.21	36853.9	1415.49	16526.1
1238.07	36273.9	1419.35	12891.2
1241.93	35595	1423.2	14654.2
1245.79	34952	1427.06	16029.9
1249.64	34243	1430.92	14525.1
1253.5	32925.9	1434.77	14156.6
1257.36	31059.1	1438.63	14388.8
1261.21	29375.1	1442.49	16173.2
1265.07	29957.8	1446.35	15317.7
1268.93	30748.5	1450.2	14447
1272.78	31147.8		
1276.64	31383.7		
1280.5	31038.9		
1284.35	30707.7		
1288.21	29864.2		



Filename: HMA0406  
Subfile: 0300

Type: OFF STACK

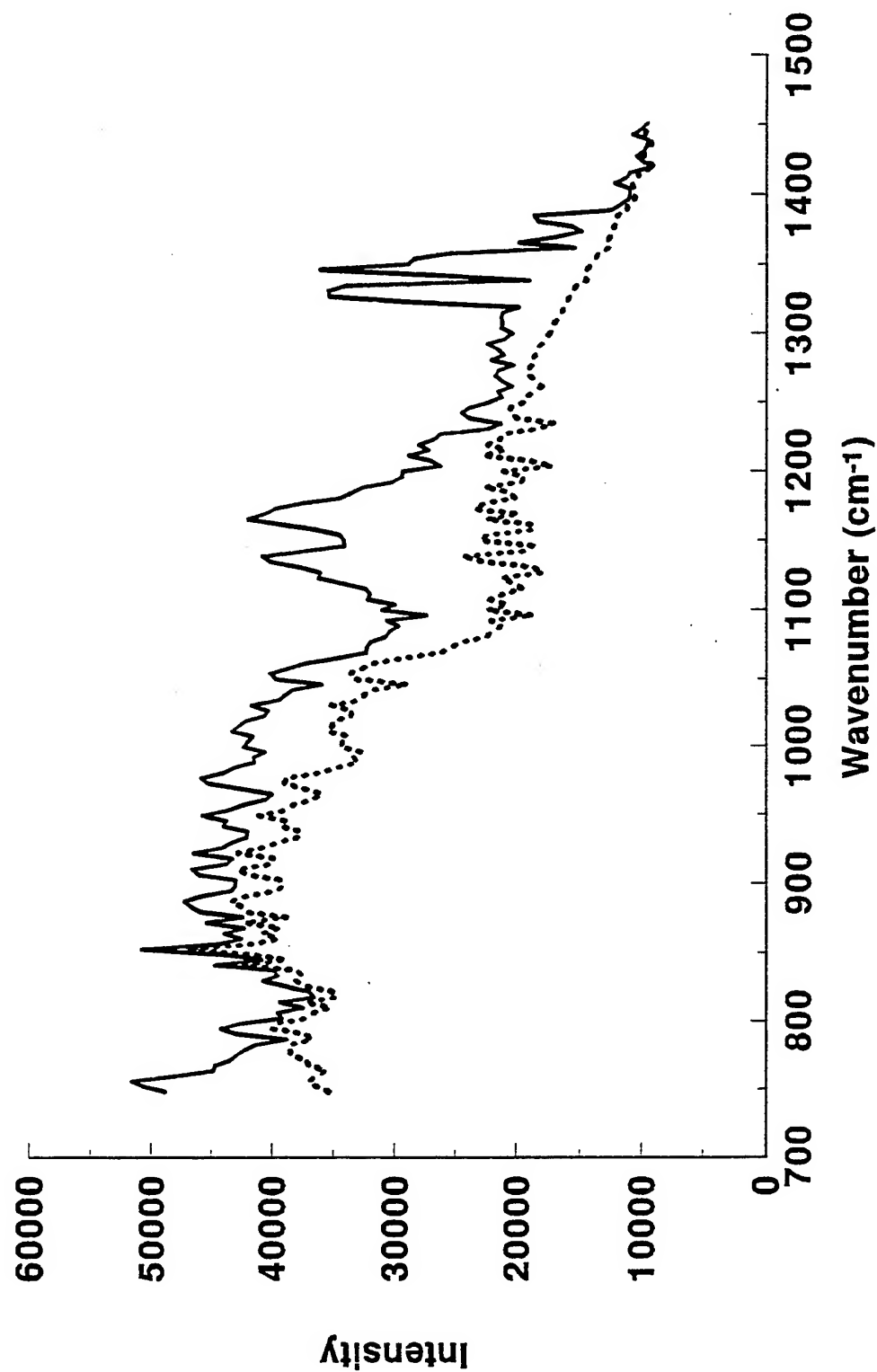
WN	INT	WN	INT
748.245	35376.7	929.521	39451.7
752.102	36413.8	933.378	37892
755.959	37047	937.234	37604.7
759.816	36206.7	941.091	39172.7
763.672	35555.5	944.948	38824.2
767.529	37017.1	948.805	40982.8
771.386	37117.3	952.662	38972.8
775.243	38462.2	956.519	38244.7
779.1	38503.9	960.376	36707.9
782.957	38538.6	964.233	35892.1
786.814	36715.5	968.09	37452.1
790.671	37416.1	971.947	39010.7
794.528	39972.9	975.804	38810.6
798.385	39689.6	979.661	36047.7
802.242	37086.6	983.518	34676.2
806.099	36619.5	987.375	32931.5
809.956	35227.8	991.232	33306.5
813.813	37257.1	995.088	32667.6
817.669	34580.8	998.945	34371.4
821.526	35147.6	1002.8	34273.9
825.383	37314.4	1006.65	33790.2
829.24	38034.2	1010.51	35474.7
833.097	37468.1	1014.37	35116
836.954	38122.3	1018.23	34940.9
840.811	42261.2	1022.08	33565.6
844.668	38858.7	1025.94	33443.4
848.525	41707.1	1029.8	35093.3
852.382	46997.7	1033.65	32849.2
856.239	41600.5	1037.51	32484
860.096	39501.4	1041.37	31682.8
863.953	40773.4	1045.22	28959.5
867.81	39361.4	1049.08	33075.7
871.667	42139.8	1052.94	33700.2
875.524	38861.2	1056.8	32633.6
879.38	42133.8	1060.65	31639
883.237	42481.4	1064.51	29176.6
887.094	43324.3	1068.37	26145.1
890.951	42079.4	1072.22	25331.2
894.808	39569.4	1076.08	24492.3
898.665	39065.7	1079.94	22439.4
902.522	39284.1	1083.79	21940.6
906.379	41867	1087.65	21229.2
910.236	42757.4	1091.51	22040.6
914.093	40082.7	1095.36	18598.5
917.95	39783.1	1099.22	22379
921.807	42763.7	1103.08	20718
925.664	40716.2	1106.94	22109.5

Filename: HMA0406  
Subfile: 0300

Type: OFF STACK

WN	INT	WN	INT
1110.79	20964.5	1292.07	17915.8
1114.65	19477.3	1295.93	17750
1118.51	20242.6	1299.78	17353.4
1122.36	21196.1	1303.64	17141.5
1126.22	17777.4	1307.5	16971.4
1130.08	18722	1311.35	16636.6
1133.93	22413.7	1315.21	16463.2
1137.79	24434.1	1319.07	16186.8
1141.65	19324.4	1322.92	16055.4
1145.5	18661.8	1326.78	15764.2
1149.36	22936.1	1330.64	15553.4
1153.22	22289.1	1334.49	15286.9
1157.08	18653.8	1338.35	14473.4
1160.93	18638.5	1342.21	14603.9
1164.79	22423.3	1346.07	14431.3
1168.65	19803	1349.92	14096.8
1172.5	23389.7	1353.78	13766.2
1176.36	22506.7	1357.64	13466.5
1180.22	20076.6	1361.49	12565.1
1184.07	20424	1365.35	12815.1
1187.93	22589.9	1369.21	12570.5
1191.79	19619.9	1373.06	12165.2
1195.64	19375.3	1376.92	12198.4
1199.5	20984.6	1380.78	11944.3
1203.36	17075.3	1384.63	11933.1
1207.22	19018.1	1388.49	11157
1211.07	22691.1	1392.35	11117.5
1214.93	20864.7	1396.21	10538.8
1218.79	22310.3	1400.06	10485.2
1222.64	21318	1403.92	10654
1226.5	21075.4	1407.78	10682
1230.36	18217	1411.63	10207.4
1234.21	16994.7	1415.49	10208.6
1238.07	19954.1	1419.35	8848.18
1241.93	20501.5	1423.2	9677.18
1245.79	20455.4	1427.06	9842.72
1249.64	19335.9	1430.92	9460.53
1253.5	19231.6	1434.77	9175.06
1257.36	18396.9	1438.63	9181.23
1261.21	17989.3	1442.49	9710.46
1265.07	18270.2	1446.35	9575.51
1268.93	18980.7	1450.2	9153.1
1272.78	19139.5		
1276.64	18642.9		
1280.5	18636.1		
1284.35	18475.6		
1288.21	18410.3		

**ON and OFF STACK Response**  
**HMA0406**



Filename: HMA0406  
Subfile: 0600

Type: ON STACK

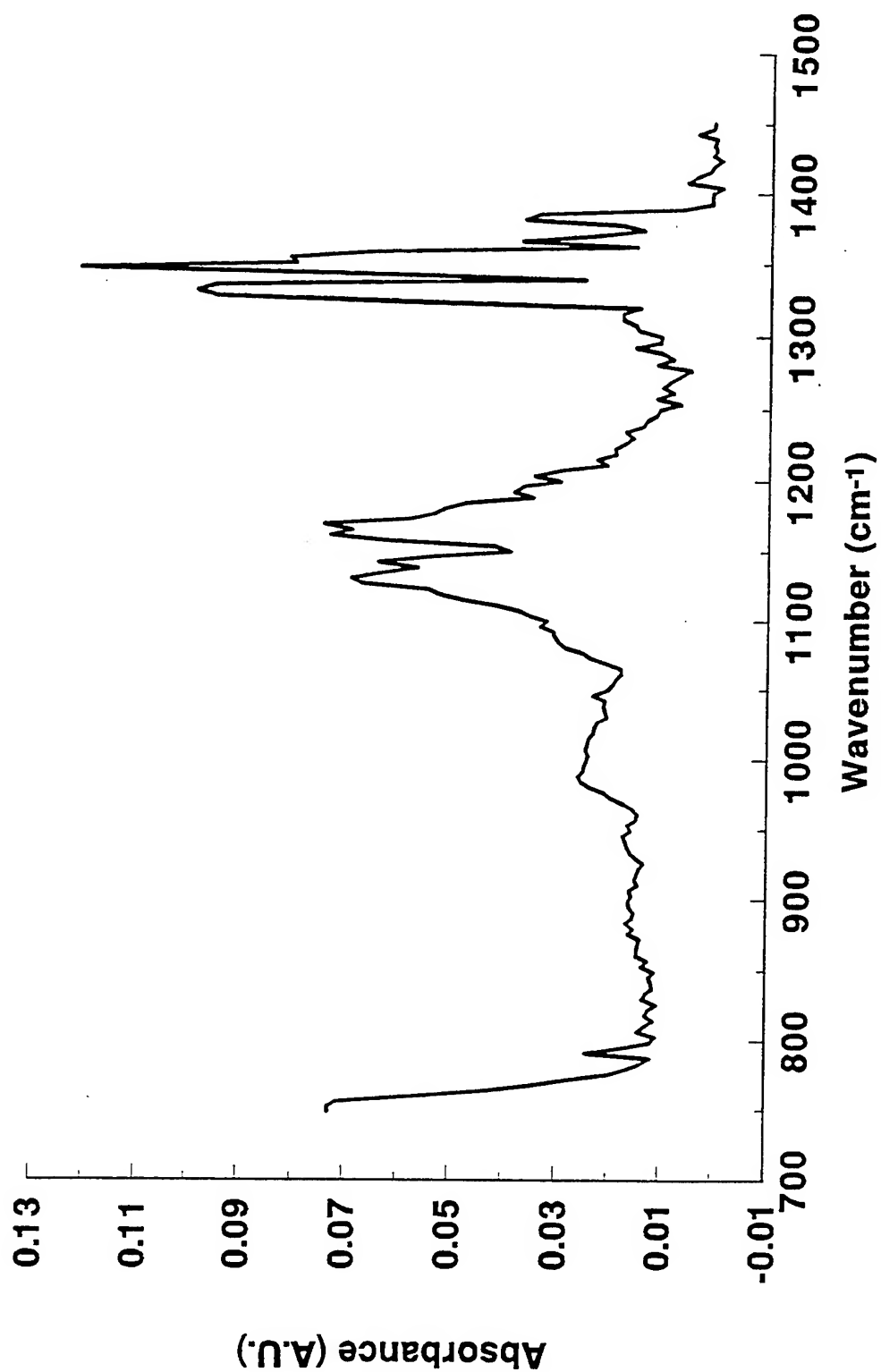
WN	INT	WN	INT
748.245	48868.8	929.521	43201.6
752.102	50619.5	933.378	42018.4
755.959	51567	937.234	42006.7
759.816	47889.8	941.091	43930.8
763.672	44814.2	944.948	43756.3
767.529	44649.7	948.805	45686.6
771.386	43422.7	952.662	43593
775.243	42861.9	956.519	42287.7
779.1	42158.6	960.376	40480.1
782.957	41288.5	964.233	40038.5
786.814	38821.7	968.09	42639.6
790.671	42824.8	971.947	45224.5
794.528	44131.4	975.804	45788.1
798.385	42584.6	979.661	43978.4
802.242	39191.3	983.518	43029.4
806.099	39509	987.375	41412
809.956	37507.5	991.232	41436.9
813.813	39298.2	995.088	40603.5
817.669	36598.4	998.945	42231.4
821.526	37018.4	1002.8	41977.6
825.383	38884.6	1006.65	41531.7
829.24	40674.5	1010.51	43210.6
833.097	39564.9	1014.37	42673.8
836.954	39831	1018.23	42153.7
840.811	44664.2	1022.08	40606.3
844.668	40841.4	1025.94	40344.4
848.525	43700.9	1029.8	41605.7
852.382	50776.7	1033.65	39472.5
856.239	44311	1037.51	38978.8
860.096	42521.5	1041.37	38285.9
863.953	43859.4	1045.22	35973.1
867.81	42286.8	1049.08	39627.2
871.667	45370.9	1052.94	40081.8
875.524	42379.3	1056.8	38762.5
879.38	45867.5	1060.65	37345.4
883.237	46691.6	1064.51	34604.4
887.094	47214	1068.37	32305.9
890.951	45877	1072.22	32233.7
894.808	43305	1076.08	31970.8
898.665	42956.3	1079.94	30700.1
902.522	42957	1083.79	30402.5
906.379	45980.8	1087.65	29735.2
910.236	46557.2	1091.51	30577.8
914.093	43686.2	1095.36	27409
917.95	43235.2	1099.22	30983.5
921.807	46429.8	1103.08	30030.4
925.664	44016.2	1106.94	32145.9

Filename: HMA0406  
Subfile: 0600

Type: ON STACK

WN	INT	WN	INT
1110.79	32003.1	1292.07	22312
1114.65	32358.1	1295.93	20873.9
1118.51	34277.4	1299.78	20322.4
1122.36	36193.7	1303.64	21180.8
1126.22	36087.4	1307.5	21155.7
1130.08	37763.6	1311.35	21213.5
1133.93	40050.8	1315.21	21081.7
1137.79	40718.9	1319.07	19808.7
1141.65	37275.6	1322.92	29167.8
1145.5	34066.3	1326.78	35329.4
1149.36	34139.6	1330.64	35413.8
1153.22	34457.3	1334.49	33996.2
1157.08	36386.3	1338.35	18962.2
1160.93	39103.9	1342.21	27050.7
1164.79	41887	1346.07	36036.4
1168.65	40560.1	1349.92	28880.2
1172.5	39802.3	1353.78	28417.8
1176.36	37643.3	1357.64	25345
1180.22	34430.2	1361.49	15374.3
1184.07	33487.4	1365.35	19694.6
1187.93	32526.3	1369.21	16850.4
1191.79	30156.8	1373.06	14879.4
1195.64	29401.3	1376.92	15619.6
1199.5	29338.9	1380.78	18216
1203.36	26260	1384.63	18499.5
1207.22	27059.1	1388.49	12461.3
1211.07	28782.1	1392.35	11726.7
1214.93	27258.8	1396.21	11032.1
1218.79	27964.1	1400.06	10920.5
1222.64	26755.4	1403.92	10918.9
1226.5	26215.6	1407.78	12099.1
1230.36	22353.5	1411.63	11197.6
1234.21	21310.1	1415.49	10869.3
1238.07	23840.2	1419.35	9162.84
1241.93	24433.6	1423.2	9864.74
1245.79	23826.1	1427.06	10340
1249.64	22266.7	1430.92	9769.85
1253.5	21218.8	1434.77	9520.81
1257.36	21435.1	1438.63	9455.21
1261.21	20353.1	1442.49	10647.7
1265.07	21153.4	1446.35	10009.1
1268.93	21695.7	1450.2	9511.65
1272.78	21457.9		
1276.64	20266.5		
1280.5	21982.5		
1284.35	21029.1		
1288.21	21535.3		

**ABSORBANCE**  
**HMA0411**



Filename: HMA0411

Type:

Absorbance

WN	ABS	WN	ABS
748.245	0.0728962	929.521	0.0148466
752.102	0.0729214	933.378	0.0158761
755.959	0.071159	937.234	0.0164781
759.816	0.0558336	941.091	0.0168402
763.672	0.0430376	944.948	0.0172566
767.529	0.0345611	948.805	0.0158513
771.386	0.0281265	952.662	0.0163531
775.243	0.0199042	956.519	0.014838
779.1	0.016467	960.376	0.0145497
782.957	0.0137561	964.233	0.0155414
786.814	0.0118601	968.09	0.0173582
790.671	0.0241129	971.947	0.0195859
794.528	0.0173242	975.804	0.0210514
798.385	0.0118425	979.661	0.0237894
802.242	0.0108712	983.518	0.0253979
806.099	0.0141115	987.375	0.0258801
809.956	0.0130532	991.232	0.0250653
813.813	0.0112872	995.088	0.0248194
817.669	0.0126908	998.945	0.024426
821.526	0.0122361	1002.8	0.0240956
825.383	0.0106958	1006.65	0.0245872
829.24	0.0132833	1010.51	0.0241921
833.097	0.01268	1014.37	0.0240299
836.954	0.0114494	1018.23	0.0232038
840.811	0.0117352	1022.08	0.0229397
844.668	0.0120812	1025.94	0.0225223
848.525	0.0111942	1029.8	0.0206879
852.382	0.0134576	1033.65	0.0209046
856.239	0.0125572	1037.51	0.0212023
860.096	0.0144283	1041.37	0.0210388
863.953	0.0144642	1045.22	0.0231381
867.81	0.0142149	1049.08	0.0205383
871.667	0.0140719	1052.94	0.0195428
875.524	0.0159921	1056.8	0.01895
879.38	0.0153132	1060.65	0.0179027
883.237	0.0165648	1064.51	0.0179532
887.094	0.0153723	1068.37	0.020633
890.951	0.0151515	1072.22	0.0238517
894.808	0.0159946	1076.08	0.0253996
898.665	0.0161499	1079.94	0.0286645
902.522	0.0155989	1083.79	0.0298345
906.379	0.0159675	1087.65	0.0305431
910.236	0.0144579	1091.51	0.0308915
914.093	0.0148648	1095.36	0.0330479
917.95	0.014582	1099.22	0.0321874
921.807	0.0140779	1103.08	0.0352021
925.664	0.0134521	1106.94	0.0375322

Filename: HMA0411

Type: Absorbance

WN	ABS	WN	ABS
1110.79	0.0414746	1292.07	0.0154328
1114.65	0.0478427	1295.93	0.010735
1118.51	0.0521148	1299.78	0.010658
1122.36	0.0545381	1303.64	0.0149734
1126.22	0.0669521	1307.5	0.0157181
1130.08	0.068978	1311.35	0.0180372
1133.93	0.0633184	1315.21	0.01811
1137.79	0.0565494	1319.07	0.0148169
1141.65	0.0637916	1322.92	0.0583591
1145.5	0.0544761	1326.78	0.0949153
1149.36	0.0389696	1330.64	0.0985133
1153.22	0.0418708	1334.49	0.0949526
1157.08	0.0625881	1338.35	0.0253737
1160.93	0.0729778	1342.21	0.0680089
1164.79	0.0690149	1346.07	0.121067
1168.65	0.0741588	1349.92	0.0801943
1172.5	0.0580166	1353.78	0.0810564
1176.36	0.053465	1357.64	0.0645249
1180.22	0.051117	1361.49	0.0155908
1184.07	0.0471235	1365.35	0.037058
1187.93	0.0348266	1369.21	0.0232981
1191.79	0.0382267	1373.06	0.0142252
1195.64	0.0367492	1376.92	0.0182331
1199.5	0.0298071	1380.78	0.0365916
1203.36	0.0343815	1384.63	0.0338118
1207.22	0.0296772	1388.49	0.0068475
1211.07	0.0211028	1392.35	0.0011176
1214.93	0.0227167	1396.21	0.0012377
1218.79	0.019246	1400.06	0.0010332
1222.64	0.0193403	1403.92	-0.000729
1226.5	0.0173235	1407.78	0.0057978
1230.36	0.0159251	1411.63	0.0041547
1234.21	0.0173083	1415.49	0.0016534
1238.07	0.0141431	1419.35	0.0009526
1241.93	0.0133478	1423.2	-0.000586
1245.79	0.0114418	1427.06	0.0009515
1249.64	0.0107268	1430.92	0.0004038
1253.5	0.0069586	1434.77	0.0008566
1257.36	0.011207	1438.63	0.0004016
1261.21	0.0083403	1442.49	0.0038323
1265.07	0.0100748	1446.35	0.0010412
1268.93	0.0087499	1450.2	0.0008469
1272.78	0.007009		
1276.64	0.0050501		
1280.5	0.0112376		
1284.35	0.0083704		
1288.21	0.0103177		



Filename: HMA0411  
Subfile: 0001

Type: 34 deg C BB

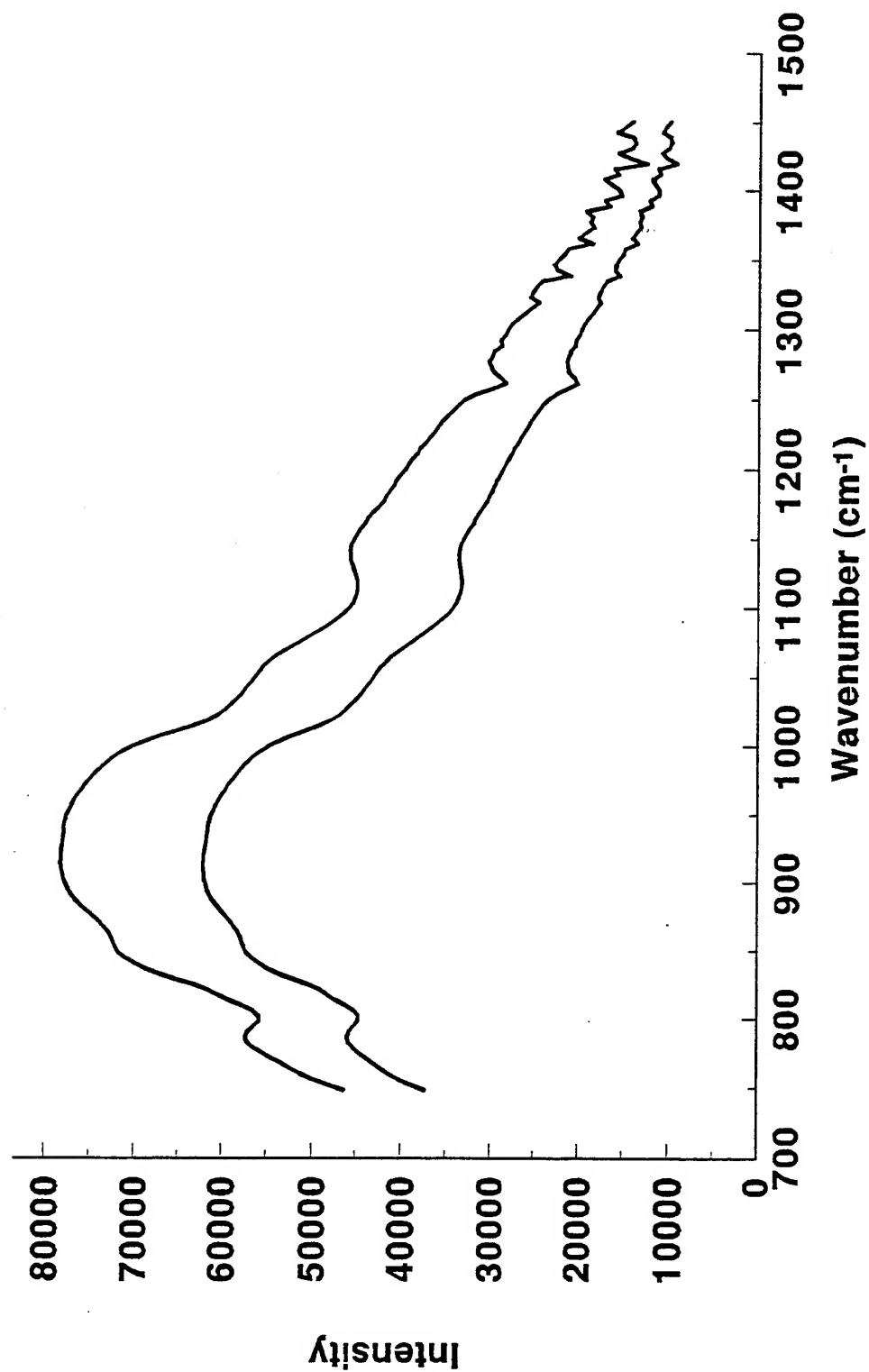
WN	INT	WN	INT
748.245	37380.8	929.521	61702.5
752.102	38898.8	933.378	61613.9
755.959	40243.3	937.234	61497
759.816	41353.8	941.091	61471.2
763.672	42165.5	944.948	61336.8
767.529	42929.3	948.805	61156.4
771.386	43744.8	952.662	60935.8
775.243	44582.7	956.519	60613.5
779.1	45307.5	960.376	60350.1
782.957	45816.6	964.233	59985.6
786.814	45907.3	968.09	59561.6
790.671	45693.4	971.947	59233.1
794.528	45215.2	975.804	58743.6
798.385	44715.8	979.661	58285.7
802.242	44676.3	983.518	57749.7
806.099	45177.3	987.375	57226.2
809.956	46133.1	991.232	56603.9
813.813	47345.3	995.088	55846.6
817.669	48281.7	998.945	54910.5
821.526	49142.6	1002.8	53767.6
825.383	50575.8	1006.65	52454.6
829.24	52208.5	1010.51	50935.5
833.097	53696.1	1014.37	49321.2
836.954	54950.1	1018.23	47922.2
840.811	55845.7	1022.08	46895.3
844.668	56590.4	1025.94	46158.9
848.525	57171.7	1029.8	45574.3
852.382	57481	1033.65	44971.9
856.239	57690.4	1037.51	44383.8
860.096	57906.5	1041.37	43935.5
863.953	58194.1	1045.22	43408.9
867.81	58632.6	1049.08	43017.8
871.667	59036.8	1052.94	42623.8
875.524	59551.8	1056.8	42220.9
879.38	60034.9	1060.65	41676.2
883.237	60542.6	1064.51	41068.1
887.094	61003.1	1068.37	40294.3
890.951	61332.4	1072.22	39493.4
894.808	61576	1076.08	38607.6
898.665	61728.6	1079.94	37844.4
902.522	61912.5	1083.79	37024.3
906.379	61938.3	1087.65	36253.2
910.236	62028.8	1091.51	35497.5
914.093	62019.7	1095.36	34844.4
917.95	61986.8	1099.22	34348.4
921.807	61918.6	1103.08	33938.2
925.664	61813.6	1106.94	33702.7

Filename: HMA0411  
Subfile: 0001

Type: 34 deg C BB

WN	INT	WN	INT
1110.79	33472.7	1292.07	20403.6
1114.65	33366.6	1295.93	20058.8
1118.51	33327.5	1299.78	19761.7
1122.36	33386.9	1303.64	19469.6
1126.22	33446.5	1307.5	19027.8
1130.08	33568.7	1311.35	18539.9
1133.93	33669	1315.21	18150.5
1137.79	33657.2	1319.07	17697.5
1141.65	33561.2	1322.92	17948.7
1145.5	33423.7	1326.78	17696.7
1149.36	33128.6	1330.64	17406
1153.22	32804.5	1334.49	17004
1157.08	32496.1	1338.35	15550.5
1160.93	32070.1	1342.21	15987.3
1164.79	31798	1346.07	15961.5
1168.65	31421.5	1349.92	15635.9
1172.5	30992.3	1353.78	15217.8
1176.36	30591.2	1357.64	14916.7
1180.22	30288.4	1361.49	13599.1
1184.07	29955.1	1365.35	14158.9
1187.93	29656.3	1369.21	13779
1191.79	29384.6	1373.06	13286.5
1195.64	29048.6	1376.92	13361.5
1199.5	28681.8	1380.78	13162.2
1203.36	28364	1384.63	13367.1
1207.22	28033.3	1388.49	12087.8
1211.07	27646.9	1392.35	12245.6
1214.93	27341.9	1396.21	11359.7
1218.79	26949.9	1400.06	11351.9
1222.64	26546.2	1403.92	11721.8
1226.5	26156.2	1407.78	11973.5
1230.36	25808.1	1411.63	11218.9
1234.21	25453.5	1415.49	11338.6
1238.07	25032.3	1419.35	9454.64
1241.93	24565.1	1423.2	10453
1245.79	24105.9	1427.06	10962.8
1249.64	23543.7	1430.92	10296.1
1253.5	22658.6	1434.77	9990.45
1257.36	21370.8	1438.63	10091.8
1261.21	20254.1	1442.49	10926.6
1265.07	20558.4	1446.35	10605.4
1268.93	21166.1	1450.2	10112.8
1272.78	21363		
1276.64	21401.6		
1280.5	21201.7		
1284.35	20956.9		
1288.21	20521.2		

**Blackbody Response at 34°C and 60°C**  
**HMA0411**



Filename: HMA0411  
Subfile: 0160

Type: 60 deg C BB

WN	INT	WN	INT
748.245	46348	929.521	77960.5
752.102	48219.2	933.378	77885.1
755.959	49864.9	937.234	77793.9
759.816	51274.6	941.091	77840.7
763.672	52359	944.948	77722.8
767.529	53271	948.805	77558.4
771.386	54387	952.662	77319.1
775.243	55418.4	956.519	76982.8
779.1	56378.3	960.376	76716.3
782.957	57059.7	964.233	76349.5
786.814	57249.2	968.09	75844.2
790.671	56992.3	971.947	75453.9
794.528	56419.4	975.804	74912.4
798.385	55793.4	979.661	74407.1
802.242	55831.2	983.518	73777.2
806.099	56456.9	987.375	73161.9
809.956	57660.9	991.232	72397
813.813	59214.4	995.088	71468.9
817.669	60391.5	998.945	70340.6
821.526	61445.1	1002.8	68864.7
825.383	63253	1006.65	67160.1
829.24	65331.8	1010.51	65267.6
833.097	67168.7	1014.37	63254
836.954	68822.6	1018.23	61534.5
840.811	69957.9	1022.08	60402.7
844.668	70954.1	1025.94	59604.9
848.525	71700.6	1029.8	58984.6
852.382	72060.9	1033.65	58359.5
856.239	72314.7	1037.51	57727.3
860.096	72562.5	1041.37	57306
863.953	72907.4	1045.22	56751.2
867.81	73427.3	1049.08	56319.4
871.667	73956.2	1052.94	55895.5
875.524	74625.5	1056.8	55466.2
879.38	75252.6	1060.65	54843.8
883.237	75938.1	1064.51	54131.4
887.094	76566.8	1068.37	53225.7
890.951	77023.7	1072.22	52217.7
894.808	77361.3	1076.08	51119.2
898.665	77599.3	1079.94	50198.9
902.522	77852	1083.79	49169.8
906.379	77969.1	1087.65	48222.9
910.236	78100.9	1091.51	47271.3
914.093	78171.6	1095.36	46499
917.95	78148.8	1099.22	45864.9
921.807	78156.6	1103.08	45382.6
925.664	78054	1106.94	45132.4

Filename: HMA0411  
Subfile: 0160

Type: 60 deg C BB

WN	INT	WN	INT
1110.79	44908.6	1292.07	28966
1114.65	44849.9	1295.93	28451.8
1118.51	44885.8	1299.78	28109.9
1122.36	45026.4	1303.64	27744.8
1126.22	45191.1	1307.5	27008.8
1130.08	45432.3	1311.35	26145.8
1133.93	45626	1315.21	25439.7
1137.79	45684	1319.07	24598.4
1141.65	45674.7	1322.92	25559.8
1145.5	45584.4	1326.78	25228.4
1149.36	45234.4	1330.64	24869
1153.22	44869	1334.49	24237.1
1157.08	44540.7	1338.35	21083.9
1160.93	44016.9	1342.21	22452.7
1164.79	43676.2	1346.07	22840.1
1168.65	43208.7	1349.92	22323.9
1172.5	42598.5	1353.78	21720.4
1176.36	42062.1	1357.64	21287.2
1180.22	41753.4	1361.49	18642.9
1184.07	41337.6	1365.35	20077
1187.93	40901.7	1369.21	19329.2
1191.79	40630.2	1373.06	18501.6
1195.64	40185.9	1376.92	18770.6
1199.5	39667.8	1380.78	18591.3
1203.36	39329.4	1384.63	19269.2
1207.22	38893.2	1388.49	16664.4
1211.07	38313	1392.35	17211.5
1214.93	38009.1	1396.21	15407.1
1218.79	37451.6	1400.06	15607.7
1222.64	36940	1403.92	16468.3
1226.5	36415.7	1407.78	17257.1
1230.36	36009.3	1411.63	15775
1234.21	35568.9	1415.49	16152.3
1238.07	35010.5	1419.35	12664.4
1241.93	34360.4	1423.2	14359
1245.79	33752.9	1427.06	15682.3
1249.64	33074.9	1430.92	14240.6
1253.5	31837.6	1434.77	13865
1257.36	30044.7	1438.63	14109
1261.21	28410.9	1442.49	15822.4
1265.07	28946.4	1446.35	15010.3
1268.93	29702.5	1450.2	14187.5
1272.78	30096.7		
1276.64	30343.4		
1280.5	30016.7		
1284.35	29714.4		
1288.21	28883.2		

Filename: HMA0411  
Subfile: 0310

Type: OFF STACK

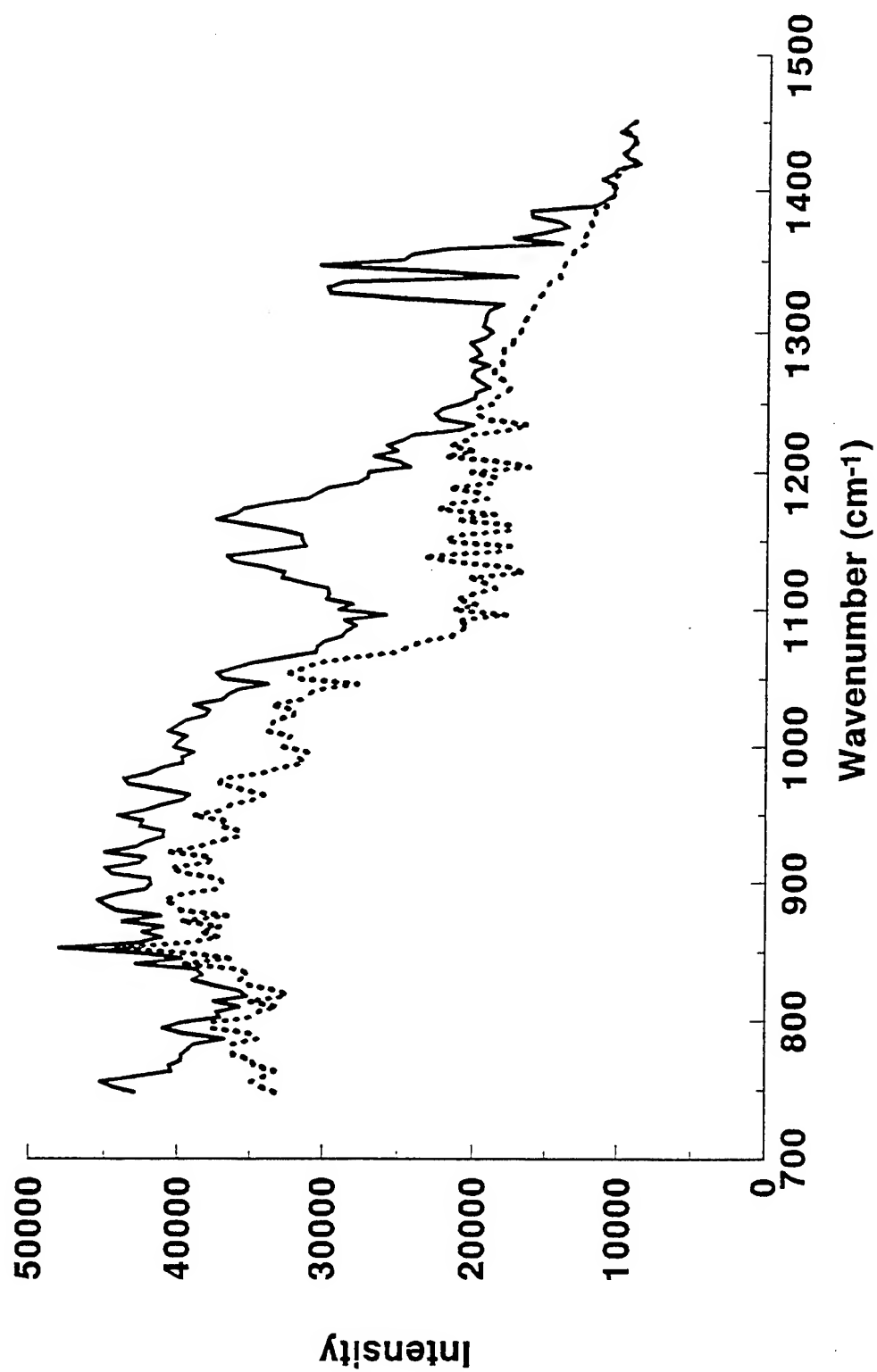
WN	INT	WN	INT
748.245	33301.9	929.521	37412.9
752.102	34329.3	933.378	35918.8
755.959	34903.8	937.234	35647.1
759.816	33957.9	941.091	37166.4
763.672	33305.6	944.948	36847.5
767.529	34746.6	948.805	39002.8
771.386	34833.6	952.662	37034.4
775.243	36158.2	956.519	36381.7
779.1	36219	960.376	34925.5
782.957	36227.8	964.233	34129.4
786.814	34460	968.09	35682.7
790.671	35141.5	971.947	37167.3
794.528	37769.4	975.804	36996.9
798.385	37604.6	979.661	34330.6
802.242	35007.7	983.518	32991.5
806.099	34511.8	987.375	31328.1
809.956	33104	991.232	31721.9
813.813	35097.9	995.088	31129.5
817.669	32443.1	998.945	32758.7
821.526	32987	1002.8	32724
825.383	35078.1	1006.65	32253.3
829.24	35760.8	1010.51	33917.4
833.097	35150	1014.37	33600.4
836.954	35757.5	1018.23	33460.8
840.811	39814	1022.08	32117.5
844.668	36450.9	1025.94	32003.1
848.525	39246.8	1029.8	33621.9
852.382	44505.9	1033.65	31540.3
856.239	39244	1037.51	31090.2
860.096	37172.6	1041.37	30386.7
863.953	38410.9	1045.22	27730.8
867.81	37066.4	1049.08	31704.1
871.667	39823.8	1052.94	32357
875.524	36581	1056.8	31336.8
879.38	39802.6	1060.65	30421.9
883.237	40112.5	1064.51	28058.5
887.094	40929.2	1068.37	25139.2
890.951	39772	1072.22	24298.2
894.808	37319.6	1076.08	23518.1
898.665	36863.7	1079.94	21502
902.522	37102.7	1083.79	21015.5
906.379	39607.9	1087.65	20334.5
910.236	40520.3	1091.51	21135.8
914.093	37931.7	1095.36	17779.9
917.95	37635.1	1099.22	21460
921.807	40571.5	1103.08	19805.3
925.664	38611.1	1106.94	21187.7

Filename: HMA0411  
Subfile: 0310

Type: OFF STACK

WN	INT	WN	INT
1110.79	20026.3	1292.07	17508.1
1114.65	18552.2	1295.93	17369.8
1118.51	19254.7	1299.78	16945.1
1122.36	20205.8	1303.64	16782.2
1126.22	16708.4	1307.5	16664
1130.08	17609.6	1311.35	16343.7
1133.93	21255	1315.21	16190.9
1137.79	23380	1319.07	15934.2
1141.65	18183.1	1322.92	15751
1145.5	17602.8	1326.78	15395
1149.36	21955.8	1330.64	15178.7
1153.22	21330.2	1334.49	14918.1
1157.08	17576.2	1338.35	14190.2
1160.93	17465.5	1342.21	14275.9
1164.79	21266.7	1346.07	13966.2
1168.65	18640.1	1349.92	13742.9
1172.5	22382	1353.78	13421
1176.36	21533.9	1357.64	13178.1
1180.22	19135.5	1361.49	12354.6
1184.07	19483.1	1365.35	12601.8
1187.93	21755.2	1369.21	12384.4
1191.79	18743.6	1373.06	11994.8
1195.64	18537.2	1376.92	12049.9
1199.5	20220.2	1380.78	11763
1203.36	16295	1384.63	11776.2
1207.22	18241.6	1388.49	11036.2
1211.07	21990.2	1392.35	11014.3
1214.93	20098.8	1396.21	10429.1
1218.79	21618.7	1400.06	10383.5
1222.64	20594.1	1403.92	10564.8
1226.5	20447.4	1407.78	10597.5
1230.36	17581.9	1411.63	10123.7
1234.21	16356	1415.49	10116.1
1238.07	19311.1	1419.35	8748.31
1241.93	19902.6	1423.2	9584.09
1245.79	19884.5	1427.06	9772.22
1249.64	18731.9	1430.92	9387.21
1253.5	18682.5	1434.77	9080.86
1257.36	17913.8	1438.63	9112.87
1261.21	17610	1442.49	9626.45
1265.07	17870	1446.35	9504.3
1268.93	18605.6	1450.2	9087.3
1272.78	18742.3		
1276.64	18137		
1280.5	18199		
1284.35	18061.1		
1288.21	18067.3		

**ON and OFF STACK Response**  
**HMA0411**





Filename: HMA0411  
Subfile: 2200

Type: ON STACK

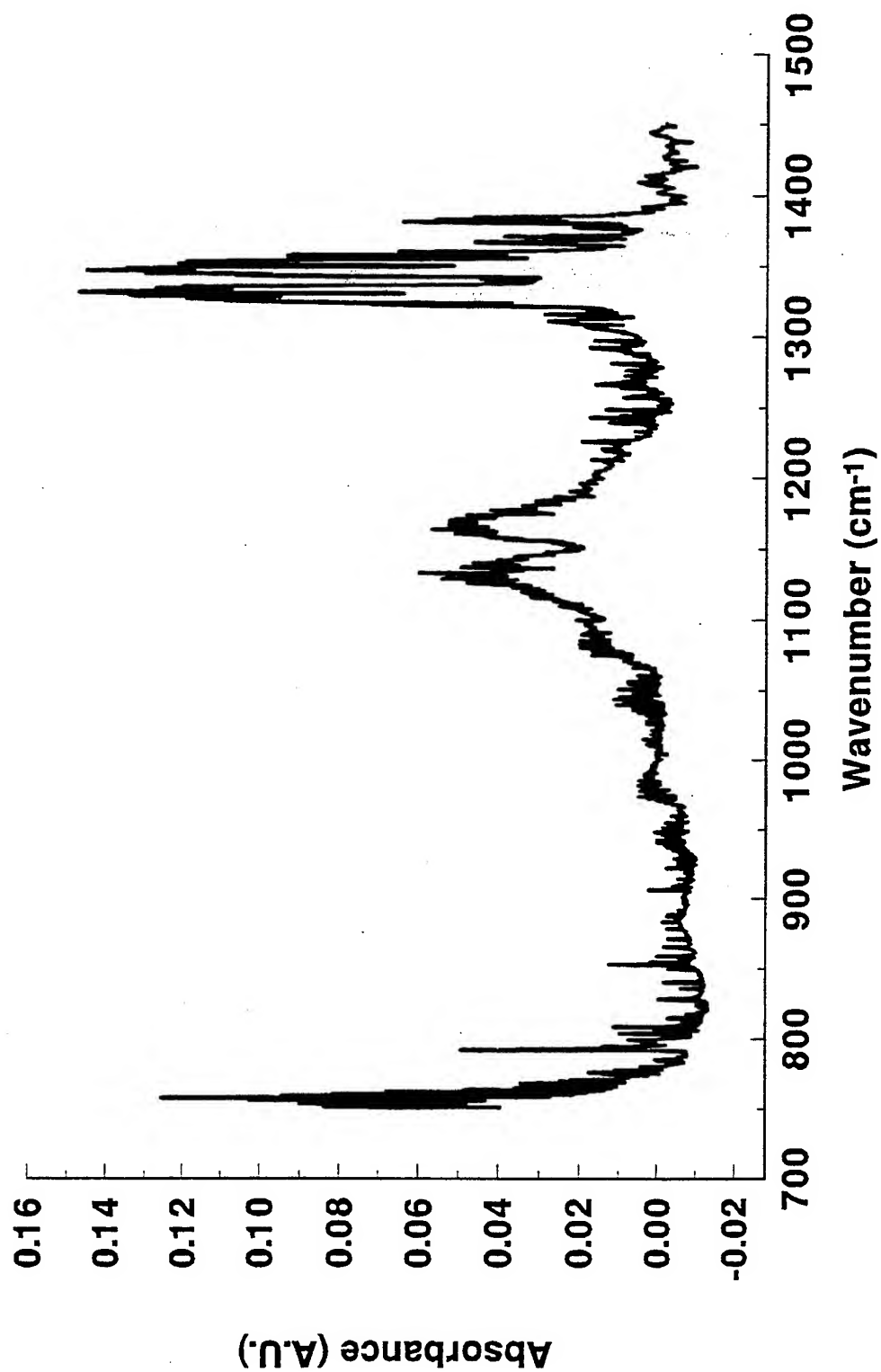
WN	INT	WN	INT
748.245	42953.6	929.521	42166.7
752.102	44434.3	933.378	41059.8
755.959	45216.5	937.234	41002.2
759.816	42690	941.091	42608.6
763.672	40453.9	944.948	42444.2
767.529	40575.7	948.805	44082.4
771.386	39790.9	952.662	42341.6
775.243	39741.3	956.519	41222.6
779.1	39283.1	960.376	39721.7
782.957	38851.4	964.233	39271.2
786.814	36798.8	968.09	41323.8
790.671	39775	971.947	43428.5
794.528	40984.3	975.804	43695.4
798.385	39788.5	979.661	41990.8
802.242	37094.6	983.518	41176.7
806.099	37274.4	987.375	39706.9
809.956	35786.6	991.232	39743.5
813.813	37465.6	995.088	39010
817.669	35256.1	998.945	40313.8
821.526	35750.5	1002.8	39999.5
825.383	37548.2	1006.65	39478.9
829.24	38944.9	1010.51	40718.9
833.097	38326	1014.37	40138.8
836.954	38722.3	1018.23	39601.2
840.811	42816.8	1022.08	38177.9
844.668	39706.8	1025.94	37913.5
848.525	42244.7	1029.8	38958.8
852.382	47967.1	1033.65	37004.8
856.239	42647.8	1037.51	36619.8
860.096	41164.4	1041.37	35908.5
863.953	42401.6	1045.22	33901.4
867.81	41072.4	1049.08	36993.1
871.667	43750.1	1052.94	37350.3
875.524	41216.4	1056.8	36210.4
879.38	44192.8	1060.65	35032.3
883.237	44917.7	1064.51	32730
887.094	45431.6	1068.37	30554.7
890.951	44301.1	1072.22	30464.1
894.808	42226.6	1076.08	29985.3
898.665	41870.8	1079.94	28789.8
902.522	41966.4	1083.79	28474.6
906.379	44527.5	1087.65	27880
910.236	44973.7	1091.51	28566.6
914.093	42623	1095.36	25855.4
917.95	42258.5	1099.22	28972.3
921.807	44967.7	1103.08	28063
925.664	42880.1	1106.94	29844.2

Filename: HMA0411  
Subfile: 2200

Type: ON STACK

WN	INT	WN	INT
1110.79	29660	1292.07	20338.6
1114.65	29792.4	1295.93	19311.6
1118.51	31451.2	1299.78	18871.3
1122.36	32935.5	1303.64	19454.8
1126.22	32784	1307.5	19366.5
1130.08	34198.4	1311.35	19296.9
1133.93	36236.2	1315.21	19033.9
1137.79	36701.7	1319.07	18147.4
1141.65	33917.9	1322.92	24957.6
1145.5	31309.8	1326.78	29682.1
1149.36	31518.7	1330.64	29841.7
1153.22	31591.3	1334.49	28692.1
1157.08	33034.8	1338.35	17230
1160.93	35146.5	1342.21	23389.7
1164.79	37417.1	1346.07	30326.4
1168.65	36168.4	1349.92	24788.7
1172.5	35665.6	1353.78	24287.3
1176.36	33787.2	1357.64	21830.9
1180.22	31136.9	1361.49	14104.3
1184.07	30481	1365.35	17384.7
1187.93	29728.7	1369.21	15253.2
1191.79	27713.9	1373.06	13661.7
1195.64	27110	1376.92	14260.6
1199.5	27023.2	1380.78	16142.5
1203.36	24381.3	1384.63	16206.6
1207.22	25064.8	1388.49	11752.8
1211.07	26625.9	1392.35	11142.7
1214.93	25173.5	1396.21	10545
1218.79	25800.7	1400.06	10485.5
1222.64	24792.7	1403.92	10484.1
1226.5	24170.9	1407.78	11310.6
1230.36	21091.1	1411.63	10565.6
1234.21	20177.9	1415.49	10303.2
1238.07	22306.1	1419.35	8820.2
1241.93	22658	1423.2	9529.98
1245.79	22212	1427.06	9878.71
1249.64	20910.7	1430.92	9425.03
1253.5	20042.5	1434.77	9159.86
1257.36	19971.2	1438.63	9151.44
1261.21	19046.7	1442.49	10075.3
1265.07	19655.1	1446.35	9614.53
1268.93	20186.4	1450.2	9170.5
1272.78	20043.8		
1276.64	19108.5		
1280.5	20315.1		
1284.35	19634.5		
1288.21	19912.6		

**ABSORBANCE**  
**LMA0112**



Filename: LMA0112

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
750.173	0.0725671	772.83	0.0097208	795.486	0.0041422
750.655	0.0396881	773.312	0.0023547	795.969	0.0033661
751.137	0.0838737	773.794	0.0052507	796.451	0.0009402
751.619	0.0803533	774.276	0.0139731	796.933	0.0002349
752.101	0.0527669	774.758	-0.0005879	797.415	0.0024376
752.583	0.0715222	775.24	0.0075804	797.897	0.0005465
753.066	0.0898646	775.722	0.0174807	798.379	0.0041379
753.548	0.0477818	776.204	0.0005529	798.861	0.0075282
754.03	0.0515928	776.686	0.0082086	799.343	0.0014378
754.512	0.0772082	777.168	0.0109011	799.825	-0.0046453
754.994	0.0438405	777.65	-0.001275	800.307	-0.006443
755.476	0.0431094	778.132	-0.0001661	800.789	-0.0082134
755.958	0.102617	778.614	0.0030217	801.271	-0.0086376
756.44	0.0500321	779.097	0.0040819	801.753	-0.0050269
756.922	0.0667791	779.579	0.0042907	802.235	-0.0088025
757.404	0.125228	780.061	-0.0021941	802.717	-0.004565
757.886	0.0295567	780.543	-0.0025622	803.199	0.0095549
758.368	0.027212	781.025	-0.0025579	803.681	0.0041466
758.85	0.0942942	781.507	-0.0054044	804.163	-0.0081296
759.332	0.0249025	781.989	-0.0059157	804.646	-0.0050976
759.814	0.021311	782.471	-0.0058665	805.128	-0.0100251
760.296	0.0814194	782.953	-0.0069134	805.61	-0.0105943
760.778	0.0222448	783.435	-0.0056081	806.092	0.0007382
761.26	0.0180909	783.917	-0.000264	806.574	-0.0053443
761.743	0.0680284	784.399	0.0002591	807.056	-0.0099321
762.225	0.0181836	784.881	0.0005358	807.538	-0.0098583
762.707	0.0136321	785.363	-0.0031102	808.02	0.0111611
763.189	0.0481872	785.845	-0.0065754	808.502	-0.0063208
763.671	0.020381	786.327	-0.0061678	808.984	-0.0105337
764.153	0.0116652	786.809	-0.0054751	809.466	-0.0051976
764.635	0.0359239	787.292	-0.0076754	809.948	-0.0106566
765.117	0.0264952	787.774	-0.0070858	810.43	-0.01091
765.599	0.0103039	788.256	-0.0067108	810.912	-0.006304
766.081	0.029499	788.738	-0.0076401	811.394	-0.0111183
766.563	0.0303584	789.22	-0.0075504	811.876	-0.0114713
767.045	0.0124179	789.702	-0.0068526	812.358	-0.0092344
767.527	0.0343866	790.184	-0.0071222	812.84	-0.0109431
768.009	0.0289086	790.666	-0.0073269	813.322	-0.0115295
768.491	0.0081704	791.148	-0.0004862	813.805	-0.0029208
768.973	0.0232593	791.63	0.0491812	814.287	-0.0029245
769.455	0.0246288	792.112	0.0299765	814.769	-0.003441
769.937	0.0166931	792.594	0.0123886	815.251	-0.0104703
770.42	0.0219591	793.076	0.0043622	815.733	-0.007836
770.902	0.0132022	793.558	0.0052486	816.215	-0.011792
771.384	0.0082257	794.04	0.0139934	816.697	-0.0107771
771.866	0.0074147	794.522	-0.0005734	817.179	-0.0076539
772.348	0.0077357	795.004	-0.0021213	817.661	-0.0121196

Filename: LMA0112

Type:

Absorbance

WN	ABS	WN	ABS	WN	ABS
818.143	-0.012048	840.8	-0.0119292	863.456	-0.008993
818.625	-0.010378	841.282	-0.0108267	863.938	-0.0085134
819.107	-0.012667	841.764	-0.0106682	864.42	-0.0082166
819.589	-0.012815	842.246	-0.0117218	864.902	-0.0049269
820.071	-0.012198	842.728	-0.0116816	865.384	-0.0017372
820.553	-0.0119	843.21	-0.011688	865.867	-0.0072068
821.035	-0.012837	843.692	-0.0115141	866.349	-0.0082935
821.517	-0.013004	844.174	-0.0113959	866.831	-0.0083444
822	-0.01074	844.656	-0.0113093	867.313	-0.0084638
822.482	-0.01267	845.138	-0.0114737	867.795	-0.0088185
822.964	-0.01222	845.62	-0.0108449	868.277	-0.0082296
823.446	-0.010201	846.102	-0.0108034	868.759	-0.008148
823.928	-0.012829	846.584	-0.0111146	869.241	-0.0080429
824.41	-0.012957	847.066	-0.0110409	869.723	-0.008067
824.892	-0.010507	847.548	-0.0108151	870.205	-0.0084882
825.374	-0.010189	848.03	-0.0103486	870.687	-0.0085057
825.856	-0.012689	848.513	-0.0106667	871.169	-0.0028158
826.338	-0.012142	848.995	-0.0098323	871.651	-0.0079925
826.82	-0.01095	849.477	-0.0028158	872.133	-0.0084155
827.302	-0.00748	849.959	-0.0079995	872.615	-0.0079477
827.784	-0.000344	850.441	-0.0097396	873.097	-0.0078184
828.266	-0.005038	850.923	-0.00865	873.579	-0.0075646
828.748	-0.010017	851.405	-0.0087817	874.061	-0.0077852
829.23	-0.01079	851.887	-0.0076897	874.544	-0.0074057
829.712	-0.00969	852.369	0.0023194	875.026	-0.0074781
830.194	-0.011245	852.851	0.0123254	875.508	-0.0071917
830.677	-0.011055	853.333	-0.0021645	875.99	-0.007586
831.159	-0.010665	853.815	-0.0082391	876.472	-0.007393
831.641	-0.011661	854.297	-0.0044318	876.954	-0.00704
832.123	-0.011512	854.779	0.0018048	877.436	-0.0068573
832.605	-0.011474	855.261	-0.0079458	877.918	-0.006604
833.087	-0.011446	855.743	-0.0081051	878.4	-0.0025256
833.569	-0.01178	856.225	-0.0086992	878.882	-0.0059008
834.051	-0.011556	856.707	-0.0086656	879.364	-0.0064589
834.533	-0.010817	857.19	-0.0090795	879.846	-0.0061516
835.015	-0.01175	857.672	-0.0091546	880.328	-0.0058114
835.497	-0.006116	858.154	-0.0095891	880.81	-0.0062923
835.979	-0.011682	858.636	-0.0000198	881.292	-0.0058377
836.461	-0.012109	859.118	-0.0088286	881.774	-0.0058637
836.943	-0.011934	859.6	-0.0070758	882.256	-0.0058776
837.425	-0.011935	860.082	-0.009159	882.738	-0.005915
837.907	-0.012167	860.564	-0.0094806	883.221	-0.001429
838.389	-0.011823	861.046	-0.0093606	883.703	-0.0031706
838.871	-0.011922	861.528	-0.0100006	884.185	-0.0057146
839.353	-0.01145	862.01	-0.0096254	884.667	-0.0054952
839.836	-0.001748	862.492	-0.0094896	885.149	-0.0054586
840.318	-0.004859	862.974	-0.0092189	885.631	-0.0057186

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WN	ABS	WN	ABS	WN	ABS
886.113	-0.006234	908.769	-0.0040246	931.426	-0.0092972
886.595	-0.006431	909.252	-0.0049757	931.908	-0.0089838
887.077	-0.002641	909.734	-0.0075377	932.39	-0.008071
887.559	-0.005649	910.216	-0.0055128	932.872	-0.0056346
888.041	-0.006786	910.698	-0.0057177	933.354	-0.0074027
888.523	-0.002901	911.18	-0.0076983	933.836	-0.0072235
889.005	-0.006916	911.662	-0.0082841	934.318	-0.0078915
889.487	-0.007112	912.144	-0.0075162	934.801	-0.0039567
889.969	-0.005882	912.626	-0.0088567	935.283	-0.0067404
890.451	-0.0072	913.108	-0.0082599	935.765	-0.0073737
890.933	-0.007159	913.59	-0.0093753	936.247	-0.0064122
891.415	-0.00542	914.072	-0.0054346	936.729	-0.0026353
891.898	-0.007114	914.554	-0.0073478	937.211	-0.0070066
892.38	-0.007229	915.036	-0.0082548	937.693	-0.0066684
892.862	-0.007129	915.518	-0.0084369	938.175	-0.0059563
893.344	-0.007336	916	-0.0088302	938.657	-0.0017308
893.826	-0.007444	916.482	-0.0077797	939.139	-0.0065579
894.308	-0.007333	916.964	-0.0087371	939.621	-0.006301
894.79	-0.007164	917.446	-0.0083538	940.103	-0.0067504
895.272	-0.007229	917.929	-0.0091735	940.585	-3.88E-06
895.754	-0.007797	918.411	-0.0070497	941.067	-0.0070112
896.236	-0.007325	918.893	-0.0073967	941.549	-0.0066744
896.718	-0.007166	919.375	-0.0090484	942.031	-0.0068726
897.2	-0.006825	919.857	-0.0087109	942.513	0.0001013
897.682	-0.006704	920.339	-0.0088539	942.995	-0.0054541
898.164	-0.007768	920.821	-0.0070306	943.478	-0.0061211
898.646	-0.006816	921.303	-0.0079605	943.96	-0.0058933
899.128	-0.006906	921.785	-0.0091026	944.442	-0.002285
899.61	-0.007446	922.267	-0.0024503	944.924	-0.0050344
900.092	-0.007365	922.749	-0.0085416	945.406	-0.00533
900.575	-0.006734	923.231	-0.0079771	945.888	-0.0013296
901.057	-0.006485	923.713	-0.0093464	946.37	-0.006092
901.539	-0.007372	924.195	-0.0095065	946.852	-0.0067511
902.021	-0.007141	924.677	-0.0097794	947.334	-0.0064473
902.503	-0.007268	925.159	-0.0052541	947.816	0.0005793
902.985	-0.006727	925.641	-0.0094798	948.298	-0.0003626
903.467	-0.007388	926.124	-0.0089898	948.78	-0.0078432
903.949	-0.007657	926.606	-0.0093424	949.262	-0.0054882
904.431	-0.00794	927.088	-0.0052756	949.744	-0.0031924
904.913	-0.007374	927.57	-0.0094722	950.226	-0.0051907
905.395	-0.008356	928.052	-0.0096874	950.708	-0.0056003
905.877	-0.008053	928.534	-0.0098926	951.19	-0.0013563
906.359	0.0022013	929.016	-0.004422	951.672	-0.0055554
906.841	-0.004934	929.498	-0.009452	952.155	-0.0065784
907.323	-0.007684	929.98	-0.0097416	952.637	-0.0056414
907.805	-0.006904	930.462	-0.0090222	953.119	-0.0035131
908.287	-0.00867	930.944	-0.0058346	953.601	-0.0049649

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WN	ABS	WN	ABS	WN	ABS
954.083	-0.006368	976.739	-0.0013757	999.396	0.0003124
954.565	-0.002172	977.221	0.0045351	999.878	-0.0001821
955.047	-0.007232	977.703	-0.0029267	1000.36	-0.0007937
955.529	-0.007691	978.186	-0.0011823	1000.84	-0.0000833
956.011	-0.005449	978.668	0.0040336	1001.32	0.0004788
956.493	-0.005384	979.15	0.0003705	1001.8	0.0001281
956.975	-0.005982	979.632	0.0035843	1002.28	-0.0004438
957.457	-0.006249	980.114	0.0001556	1002.77	0.0005457
957.939	-0.004817	980.596	-0.0000757	1003.25	-0.0001528
958.421	-0.00627	981.078	0.0050042	1003.73	-0.0022884
958.903	-0.006862	981.56	-0.0006375	1004.21	-0.0007188
959.385	-0.003645	982.042	0.0034975	1004.69	-0.0011922
959.867	-0.007357	982.524	0.0004435	1005.18	0.0005039
960.349	-0.006598	983.006	0.000742	1005.66	-1.55E-06
960.832	-0.005681	983.488	0.0035419	1006.14	-0.0001056
961.314	-0.006401	983.97	-0.000443	1006.62	5.07E-06
961.796	-0.006736	984.452	0.0047406	1007.1	-0.0010439
962.278	-0.006527	984.934	0.0011981	1007.59	-0.0004084
962.76	-0.005934	985.416	0.0034259	1008.07	0.0004015
963.242	-0.005504	985.898	0.0010948	1008.55	-0.0000359
963.724	-0.006028	986.38	0.001639	1009.03	-0.0001191
964.206	-0.006013	986.863	0.0022848	1009.51	-0.0009211
964.688	-0.005283	987.345	0.001203	1010	0.0022259
965.17	-0.006052	987.827	0.0033789	1010.48	-0.0008219
965.652	-0.006912	988.309	0.0013987	1010.96	0.0028803
966.134	-0.005256	988.791	0.0033569	1011.44	0.0002456
966.616	-0.006078	989.273	0.0012641	1011.92	-0.0002142
967.098	-0.006196	989.755	0.0031034	1012.41	0.0009873
967.58	-0.003889	990.237	0.0002915	1012.89	0.0001401
968.062	-0.003963	990.719	0.0025145	1013.37	-0.0006157
968.544	-0.003953	991.201	0.0013225	1013.85	-0.0007406
969.026	-0.001938	991.683	0.001914	1014.34	0.0036066
969.509	-0.003312	992.165	0.0006936	1014.82	0.0004904
969.991	-0.0037	992.647	0.0008622	1015.3	-0.0008406
970.473	0.0001783	993.129	0.0010487	1015.78	-0.0005979
970.955	-0.003896	993.611	0.0016206	1016.26	-0.0002944
971.437	-0.004726	994.093	0.0009298	1016.75	0.0010233
971.919	0.0024873	994.575	0.0004755	1017.23	-0.000558
972.401	-0.003655	995.057	0.0012871	1017.71	0.0016897
972.883	-0.003178	995.54	0.000364	1018.19	-0.0006206
973.365	0.0047944	996.022	0.0015492	1018.67	-0.000526
973.847	-0.004492	996.504	0.0008683	1019.16	0.0004885
974.329	-0.003398	996.986	0.0003661	1019.64	-0.0005037
974.811	0.0031416	997.468	0.0009089	1020.12	-0.0004777
975.293	-0.001612	997.95	0.0004942	1020.6	-0.0004118
975.775	0.0008069	998.432	2.84E-06	1021.08	0.0016217
976.257	-0.001052	998.914	-0.0002964	1021.57	-0.0002022

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WN	ABS	WN	ABS	WN	ABS
1022.05	-0.001078	1044.71	0.0017001	1067.36	0.0033696
1022.53	-0.001007	1045.19	0.0099322	1067.84	0.0050936
1023.01	-0.000363	1045.67	0.0021857	1068.33	0.0048757
1023.49	0.0003751	1046.15	-0.0002176	1068.81	0.0047493
1023.98	-0.00091	1046.63	0.0017088	1069.29	0.0076433
1024.46	-0.00139	1047.12	0.0064072	1069.77	0.006345
1024.94	-0.001388	1047.6	0.0004035	1070.25	0.0067311
1025.42	0.002841	1048.08	0.0000844	1070.74	0.0089427
1025.91	-0.00035	1048.56	0.0065862	1071.22	0.0076454
1026.39	-0.000311	1049.04	0.0016732	1071.7	0.0080302
1026.87	-0.001212	1049.53	0.000298	1072.18	0.0085177
1027.35	0.0029217	1050.01	0.0004402	1072.66	0.0066489
1027.83	-0.00083	1050.49	0.0101476	1073.15	0.009722
1028.32	0.001274	1050.97	0.0006587	1073.63	0.0080145
1028.8	-0.000868	1051.45	0.0001931	1074.11	0.0069986
1029.28	0.0009832	1051.94	0.0017967	1074.59	0.0169844
1029.76	0.002204	1052.42	0.0061153	1075.07	0.0066665
1030.24	-0.000917	1052.9	0.0011556	1075.56	0.0078503
1030.73	0.0000521	1053.38	-0.0000905	1076.04	0.0162065
1031.21	-0.000721	1053.86	0.007728	1076.52	0.00888
1031.69	0.003132	1054.35	0.000169	1077	0.0093776
1032.17	-0.001541	1054.83	-0.0002788	1077.48	0.0170234
1032.65	-0.000614	1055.31	0.0005586	1077.97	0.0119384
1033.14	-0.002003	1055.79	0.0077623	1078.45	0.0140373
1033.62	0.0051796	1056.27	0.0007426	1078.93	0.0128115
1034.1	-0.001442	1056.76	0.000184	1079.41	0.0115648
1034.58	-0.001338	1057.24	0.0048722	1079.9	0.0196729
1035.06	-0.001491	1057.72	-0.0000948	1080.38	0.012036
1035.55	0.0064489	1058.2	0.0004038	1080.86	0.0124005
1036.03	-0.001036	1058.68	0.0022032	1081.34	0.0142331
1036.51	-0.001115	1059.17	0.0037593	1081.82	0.0140869
1036.99	-0.000735	1059.65	-0.0005981	1082.31	0.0199792
1037.47	0.0066483	1060.13	0.0053359	1082.79	0.0125599
1037.96	-0.001369	1060.61	0.0026083	1083.27	0.0143636
1038.44	-0.001222	1061.1	-1.76E-06	1083.75	0.0166679
1038.92	-0.000371	1061.58	0.0005608	1084.23	0.0130911
1039.4	0.0106886	1062.06	0.0005076	1084.72	0.0198964
1039.88	-0.001276	1062.54	0.0018346	1085.2	0.0125483
1040.37	-0.001195	1063.02	0.0007461	1085.68	0.0154704
1040.85	-0.000937	1063.51	0.0007299	1086.16	0.0142613
1041.33	0.00873	1063.99	0.0018296	1086.64	0.0144123
1041.81	0.0000687	1064.47	0.0021095	1087.13	0.0172985
1042.29	0.0007954	1064.95	0.0007544	1087.61	0.0140314
1042.78	0.0014035	1065.43	0.0007823	1088.09	0.0174233
1043.26	0.0112663	1065.92	0.006358	1088.57	0.0153394
1043.74	0.0029539	1066.4	0.0063826	1089.05	0.0195019
1044.22	0.0021891	1066.88	0.0022675	1089.54	0.0150988



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WN	ABS	WN	ABS	WN	ABS
1090.02	0.0187811	1112.68	0.0266253	1135.33	0.0400622
1090.5	0.0123965	1113.16	0.0246967	1135.81	0.0266762
1090.98	0.0182352	1113.64	0.0252096	1136.3	0.0493754
1091.46	0.016191	1114.12	0.0253434	1136.78	0.0384684
1091.95	0.0157481	1114.6	0.0262489	1137.26	0.0359079
1092.43	0.0163618	1115.09	0.0307894	1137.74	0.0365162
1092.91	0.017574	1115.57	0.0322122	1138.22	0.0351478
1093.39	0.0173783	1116.05	0.0306448	1138.71	0.0363635
1093.87	0.0177434	1116.53	0.0290897	1139.19	0.0388394
1094.36	0.0162207	1117.01	0.0287934	1139.67	0.0462779
1094.84	0.0176296	1117.5	0.0269252	1140.15	0.0377072
1095.32	0.016641	1117.98	0.0312404	1140.63	0.0373823
1095.8	0.0185586	1118.46	0.0333893	1141.12	0.0375492
1096.29	0.0171733	1118.94	0.0344526	1141.6	0.0403412
1096.77	0.0186454	1119.42	0.0325094	1142.08	0.0342511
1097.25	0.017085	1119.91	0.0288972	1142.56	0.0331787
1097.73	0.018317	1120.39	0.030574	1143.04	0.034699
1098.21	0.0170018	1120.87	0.0333363	1143.53	0.0362445
1098.7	0.016764	1121.35	0.0302543	1144.01	0.0357648
1099.18	0.0147726	1121.83	0.0338964	1144.49	0.0356388
1099.66	0.0207958	1122.32	0.0367809	1144.97	0.0306545
1100.14	0.0138202	1122.8	0.0349633	1145.45	0.0265162
1100.62	0.0156041	1123.28	0.0321676	1145.94	0.0291013
1101.11	0.0142595	1123.76	0.0330755	1146.42	0.0279527
1101.59	0.0167805	1124.24	0.036308	1146.9	0.0273529
1102.07	0.0154585	1124.73	0.0441682	1147.38	0.0282799
1102.55	0.017263	1125.21	0.0478505	1147.87	0.0224542
1103.03	0.0176205	1125.69	0.0453166	1148.35	0.0210218
1103.52	0.0161988	1126.17	0.0427297	1148.83	0.020145
1104	0.0185749	1126.65	0.0369406	1149.31	0.0237961
1104.48	0.0188423	1127.14	0.0367741	1149.79	0.0219846
1104.96	0.0183725	1127.62	0.0356167	1150.28	0.0192854
1105.44	0.0200209	1128.1	0.0435545	1150.76	0.0193209
1105.93	0.0182885	1128.58	0.0541613	1151.24	0.0201271
1106.41	0.0196272	1129.06	0.053712	1151.72	0.0218671
1106.89	0.0207592	1129.55	0.0467142	1152.2	0.0220055
1107.37	0.0173009	1130.03	0.0383455	1152.69	0.0250306
1107.85	0.0201717	1130.51	0.0379397	1153.17	0.0215302
1108.34	0.0215833	1130.99	0.0383443	1153.65	0.0236941
1108.82	0.0231773	1131.48	0.0399011	1154.13	0.0271359
1109.3	0.0250695	1131.96	0.0453633	1154.61	0.0242827
1109.78	0.0219314	1132.44	0.0598706	1155.1	0.027693
1110.26	0.0194509	1132.92	0.0481606	1155.58	0.0313615
1110.75	0.0197483	1133.4	0.040077	1156.06	0.0386627
1111.23	0.022851	1133.89	0.0346856	1156.54	0.034355
1111.71	0.0226401	1134.37	0.0340306	1157.02	0.0363737
1112.19	0.0235512	1134.85	0.0362734	1157.51	0.0424397

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WN	ABS	WN	ABS	WN	ABS
1157.99	0.0399073	1180.64	0.0304896	1203.3	0.0151765
1158.47	0.0409686	1181.13	0.024876	1203.78	0.01506
1158.95	0.0440129	1181.61	0.0272841	1204.27	0.0161369
1159.43	0.0436439	1182.09	0.0282497	1204.75	0.0152517
1159.92	0.0452395	1182.57	0.0306206	1205.23	0.0140855
1160.4	0.0509982	1183.06	0.0308504	1205.71	0.0135433
1160.88	0.0480258	1183.54	0.0305899	1206.19	0.0136542
1161.36	0.0406484	1184.02	0.026965	1206.68	0.0127067
1161.84	0.0459619	1184.5	0.0213761	1207.16	0.012427
1162.33	0.0412019	1184.98	0.0221073	1207.64	0.0130423
1162.81	0.0504438	1185.47	0.0216093	1208.12	0.0128961
1163.29	0.0566038	1185.95	0.0222144	1208.6	0.0117726
1163.77	0.0507066	1186.43	0.0262103	1209.09	0.0117417
1164.26	0.0463004	1186.91	0.016687	1209.57	0.0119718
1164.74	0.0427001	1187.39	0.0202473	1210.05	0.0120109
1165.22	0.0427177	1187.88	0.0200639	1210.53	0.0121637
1165.7	0.0490073	1188.36	0.0187724	1211.01	0.0140528
1166.18	0.0486714	1188.84	0.0179822	1211.5	0.0130893
1166.67	0.0524686	1189.32	0.0190413	1211.98	0.0133584
1167.15	0.046924	1189.8	0.0200132	1212.46	0.0090892
1167.63	0.0523804	1190.29	0.0223333	1212.94	0.0170304
1168.11	0.0454896	1190.77	0.0188511	1213.42	0.0107536
1168.59	0.0491342	1191.25	0.017802	1213.91	0.009575
1169.08	0.0468942	1191.73	0.0173241	1214.39	0.0097664
1169.56	0.0521999	1192.21	0.018145	1214.87	0.0112185
1170.04	0.0499743	1192.7	0.0173696	1215.35	0.0095303
1170.52	0.050753	1193.18	0.018093	1215.83	0.0094457
1171	0.0439461	1193.66	0.0191213	1216.32	0.0082444
1171.49	0.0412309	1194.14	0.0184341	1216.8	0.0075191
1171.97	0.0415518	1194.62	0.0189768	1217.28	0.0074733
1172.45	0.0406139	1195.11	0.0180659	1217.76	0.0100623
1172.93	0.0444883	1195.59	0.0198636	1218.25	0.011445
1173.41	0.0477936	1196.07	0.0159729	1218.73	0.0092327
1173.9	0.0426322	1196.55	0.0168707	1219.21	0.0138096
1174.38	0.026681	1197.03	0.0167329	1219.69	0.0094126
1174.86	0.0296659	1197.52	0.0180486	1220.17	0.0141266
1175.34	0.0346134	1198	0.0162738	1220.66	0.0143119
1175.82	0.0362966	1198.48	0.0170792	1221.14	0.0114064
1176.31	0.0378823	1198.96	0.0158224	1221.62	0.010777
1176.79	0.0418495	1199.45	0.0144255	1222.1	0.0102535
1177.27	0.0345795	1199.93	0.0148749	1222.58	0.0108179
1177.75	0.0314287	1200.41	0.0152252	1223.07	0.0095439
1178.23	0.0309101	1200.89	0.016249	1223.55	0.0102385
1178.72	0.0312637	1201.37	0.0165309	1224.03	0.0107372
1179.2	0.0341142	1201.86	0.0165991	1224.51	0.0121812
1179.68	0.0342554	1202.34	0.0163097	1224.99	0.0075342
1180.16	0.0336798	1202.82	0.0161379	1225.48	0.013056

Filename: LMA0112

Type:

Absorbance

WN	ABS
1225.96	0.019328
1226.44	0.0121967
1226.92	0.0078001
1227.4	0.0050965
1227.89	0.0049626
1228.37	0.004514
1228.85	0.0042905
1229.33	0.0057037
1229.81	0.0026907
1230.3	0.0021287
1230.78	0.0027144
1231.26	0.0027194
1231.74	0.0026255
1232.22	0.0029151
1232.71	0.001917
1233.19	0.0059289
1233.67	0.0029352
1234.15	0.0021437
1234.64	0.001809
1235.12	0.0022848
1235.6	0.0007253
1236.08	0.0013265
1236.56	0.0010499
1237.05	0.0033533
1237.53	0.0009783
1238.01	0.0003848
1238.49	0.0010478
1238.97	0.0084171
1239.46	0.0126335
1239.94	0.0053455
1240.42	0.0027367
1240.9	0.0044998
1241.38	0.0010043
1241.87	0.0013719
1242.35	0.0031828
1242.83	0.017323
1243.31	0.0129055
1243.79	0.0048534
1244.28	0.0009041
1244.76	0.0098111
1245.24	0.0036177
1245.72	0.0006329
1246.2	-0.00089
1246.69	-0.000125
1247.17	-0.003017
1247.65	-0.00152
1248.13	0.0010894

WN	ABS
1248.61	0.0133942
1249.1	-0.0001979
1249.58	-0.0011901
1250.06	-0.002224
1250.54	-0.0027184
1251.02	-0.0015855
1251.51	0.0000756
1251.99	-0.0020528
1252.47	-0.0007472
1252.95	-0.0035042
1253.44	-0.0004925
1253.92	-0.0015569
1254.4	-0.0019166
1254.88	-0.0017018
1255.36	-0.0030626
1255.85	0.000437
1256.33	-0.0027085
1256.81	0.0023396
1257.29	0.0088342
1257.77	0.0000761
1258.26	0.0032026
1258.74	0.0068719
1259.22	0.0031705
1259.7	0.002259
1260.18	-0.0011558
1260.67	-0.0007249
1261.15	0.0026993
1261.63	0.0021331
1262.11	0.0026238
1262.59	0.0003379
1263.08	0.0004738
1263.56	0.0039012
1264.04	0.0096843
1264.52	0.0034313
1265	0.0030709
1265.49	0.0035866
1265.97	0.0100994
1266.45	0.0159957
1266.93	0.0124969
1267.41	0.0104585
1267.9	0.0097757
1268.38	0.0033344
1268.86	0.0091208
1269.34	0.0085589
1269.83	0.0041087
1270.31	0.0053744
1270.79	0.0063033

WN	ABS
1271.27	0.0041805
1271.75	0.0005283
1272.24	0.0032274
1272.72	0.0085202
1273.2	0.0082889
1273.68	0.0048827
1274.16	0.0020259
1274.65	0.001692
1275.13	0.0017903
1275.61	0.0013266
1276.09	0.0003802
1276.57	0.0083357
1277.06	0.0011882
1277.54	0.0004606
1278.02	-0.0006807
1278.5	-0.0010622
1278.98	-0.000029
1279.47	0.0026433
1279.95	0.0055777
1280.43	0.0073455
1280.91	0.0078576
1281.39	0.0120527
1281.88	0.0016714
1282.36	0.0004487
1282.84	0.0011278
1283.32	0.0006159
1283.8	0.0016133
1284.29	0.002007
1284.77	0.0031919
1285.25	0.0022278
1285.73	0.0021143
1286.22	0.0041988
1286.7	0.0065767
1287.18	0.0050092
1287.66	0.0024069
1288.14	0.0036486
1288.63	0.0087087
1289.11	0.0075286
1289.59	0.0079895
1290.07	0.0096396
1290.55	0.0071581
1291.04	0.012741
1291.52	0.0134423
1292	0.0174806
1292.48	0.0175377
1292.96	0.0141778
1293.45	0.0056768

Filename: LMA0112

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
1293.93	0.0055156	1316.58	0.0158688	1339.24	0.0355531
1294.41	0.0042402	1317.07	0.0108702	1339.72	0.0312883
1294.89	0.0045409	1317.55	0.0138412	1340.21	0.0444863
1295.37	0.0049819	1318.03	0.0183415	1340.69	0.0358378
1295.86	0.0064319	1318.51	0.0122966	1341.17	0.0301851
1296.34	0.0112697	1318.99	0.0162365	1341.65	0.0481898
1296.82	0.0036597	1319.48	0.0138653	1342.13	0.0744405
1297.3	0.0163526	1319.96	0.0154254	1342.62	0.0938176
1297.78	0.0065009	1320.44	0.0185064	1343.1	0.10605
1298.27	0.0053989	1320.92	0.0245274	1343.58	0.1045
1298.75	0.0047479	1321.41	0.0525714	1344.06	0.0973803
1299.23	0.0055619	1321.89	0.0621227	1344.54	0.129739
1299.71	0.0052198	1322.37	0.067602	1345.03	0.129712
1300.19	0.0054281	1322.85	0.0722591	1345.51	0.122955
1300.68	0.0058346	1323.33	0.0370565	1345.99	0.116961
1301.16	0.0067527	1323.82	0.0758695	1346.47	0.144921
1301.64	0.0068879	1324.3	0.0892602	1346.95	0.131261
1302.12	0.0076238	1324.78	0.100228	1347.44	0.125126
1302.6	0.0093222	1325.26	0.108673	1347.92	0.134751
1303.09	0.0099558	1325.74	0.109442	1348.4	0.120194
1303.57	0.0086088	1326.23	0.102163	1348.88	0.0617439
1304.05	0.0108012	1326.71	0.119038	1349.36	0.0521909
1304.53	0.013127	1327.19	0.107341	1349.85	0.0514114
1305.02	0.0126159	1327.67	0.0950017	1350.33	0.0853376
1305.5	0.0168732	1328.15	0.108574	1350.81	0.112692
1305.98	0.0136587	1328.64	0.132178	1351.29	0.121068
1306.46	0.018064	1329.12	0.133995	1351.77	0.103139
1306.94	0.0186666	1329.6	0.094746	1352.26	0.0943167
1307.43	0.0189554	1330.08	0.0640659	1352.74	0.119065
1307.91	0.0127612	1330.56	0.132803	1353.22	0.112839
1308.39	0.009198	1331.05	0.146852	1353.7	0.103269
1308.87	0.0202	1331.53	0.144145	1354.18	0.0644573
1309.35	0.0226204	1332.01	0.126335	1354.67	0.0394598
1309.84	0.0222501	1332.49	0.112961	1355.15	0.0334653
1310.32	0.0239056	1332.97	0.107155	1355.63	0.0504908
1310.8	0.0278488	1333.46	0.11074	1356.11	0.0775324
1311.28	0.0262069	1333.94	0.127089	1356.6	0.0932049
1311.76	0.0254321	1334.42	0.111897	1357.08	0.0816308
1312.25	0.015434	1334.9	0.119987	1357.56	0.0920748
1312.73	0.0094122	1335.38	0.0930742	1358.04	0.0383986
1313.21	0.00972	1335.87	0.0740273	1358.52	0.0482762
1313.69	0.0066341	1336.35	0.046094	1359.01	0.0510663
1314.17	0.0156781	1336.83	0.0431617	1359.49	0.0652118
1314.66	0.0104293	1337.31	0.0340606	1359.97	0.047633
1315.14	0.0184583	1337.8	0.0325542	1360.45	0.0257022
1315.62	0.0286773	1338.28	0.0320538	1360.93	0.0280856
1316.1	0.0258956	1338.76	0.0353649	1361.42	0.0175768

Filename: LMA0112

Type:

Absorbance

WN	ABS
1361.9	0.014239
1362.38	0.0161203
1362.86	0.0204794
1363.34	0.0174281
1363.83	0.0093351
1364.31	0.0098591
1364.79	0.017995
1365.27	0.0282262
1365.75	0.0347288
1366.24	0.0412746
1366.72	0.0460667
1367.2	0.0389129
1367.68	0.0235134
1368.16	0.0120365
1368.65	0.0141111
1369.13	0.0088584
1369.61	0.0115988
1370.09	0.0198949
1370.57	0.038761
1371.06	0.0193412
1371.54	0.0277644
1372.02	0.01384
1372.5	0.0080302
1372.99	0.0067435
1373.47	0.0094896
1373.95	0.0071599
1374.43	0.0054806
1374.91	0.0069386
1375.4	0.0050834
1375.88	0.0046961
1376.36	0.0105261
1376.84	0.0201489
1377.32	0.0216851
1377.81	0.010904
1378.29	0.008569
1378.77	0.017773
1379.25	0.018711
1379.73	0.0097396
1380.22	0.0146103
1380.7	0.0471761
1381.18	0.0640058
1381.66	0.0478341
1382.14	0.0235352
1382.63	0.0560256
1383.11	0.0453199
1383.59	0.0324531
1384.07	0.0462036

WN	ABS
1384.55	0.0422872
1385.04	0.0312095
1385.52	0.0178607
1386	0.0118756
1386.48	0.0119639
1386.96	0.0078283
1387.45	0.0102603
1387.93	0.0028688
1388.41	0.0016189
1388.89	0.0014448
1389.37	0.004233
1389.86	0.0037877
1390.34	0.0024971
1390.82	-0.001068
1391.3	0.0011887
1391.79	0.004301
1392.27	0.0011939
1392.75	0.0004592
1393.23	-0.0012203
1393.71	-0.0016812
1394.2	-0.002925
1394.68	-0.0066499
1395.16	-0.0035759
1395.64	-0.0053921
1396.12	-0.0057796
1396.61	-0.003046
1397.09	-0.002786
1397.57	-0.0039937
1398.05	-0.0036952
1398.53	-0.0035525
1399.02	-0.0067306
1399.5	-0.0061122
1399.98	-0.0035749
1400.46	-0.0034527
1400.94	-0.0025391
1401.43	-0.0011821
1401.91	0.0003022
1402.39	0.0004411
1402.87	-0.000208
1403.35	-0.0014762
1403.84	-0.0015173
1404.32	-0.0024728
1404.8	-0.0034172
1405.28	-0.0036124
1405.76	-0.0016166
1406.25	-0.0018293
1406.73	-0.0001673

WN	ABS
1407.21	0.0019835
1407.69	0.0034722
1408.18	0.0040965
1408.66	0.0030104
1409.14	0.0051891
1409.62	0.0017375
1410.1	-0.0012022
1410.59	0.0026156
1411.07	0.0025892
1411.55	-0.0019854
1412.03	-0.0016741
1412.51	0.0000232
1413	0.002986
1413.48	0.0034074
1413.96	0.0033397
1414.44	0.0009097
1414.92	-0.0010862
1415.41	-0.0009717
1415.89	-0.0025751
1416.37	-0.0038986
1416.85	-0.0031417
1417.33	-0.0051855
1417.82	-0.0056069
1418.3	-0.0031247
1418.78	-0.0047487
1419.26	-0.0066285
1419.74	-0.009691
1420.23	-0.0042075
1420.71	-0.0040086
1421.19	-0.0037976
1421.67	-0.0034683
1422.15	-0.0030185
1422.64	-0.0031562
1423.12	-0.0036206
1423.6	-0.0052215
1424.08	-0.0069661
1424.57	-0.0035829
1425.05	-0.0031512
1425.53	-0.0017145
1426.01	-0.0016008
1426.49	-0.0014523
1426.98	-0.0011799
1427.46	-0.0017378
1427.94	-0.0024257
1428.42	-0.00295
1428.9	-0.0022285
1429.39	-0.0027962

Filename: LMA0112

Type:

Absorbance

WN	ABS
1429.87	-0.004743
1430.35	-0.004574
1430.83	-0.0029277
1431.31	-0.002939
1431.8	-0.0036539
1432.28	-0.0027915
1432.76	-0.0031195
1433.24	-0.0036266
1433.72	-0.0031009
1434.21	-0.002154
1434.69	-0.0019717
1435.17	-0.0036035
1435.65	-0.0035836
1436.13	-0.0030549
1436.62	-0.0028293
1437.1	-0.0081718
1437.58	-0.0051238
1438.06	-0.0043836
1438.54	-0.0034747
1439.03	-0.0030695
1439.51	-0.0030643
1439.99	-0.0029312
1440.47	-0.0021578
1440.95	-0.0018071
1441.44	-0.0018368
1441.92	0.0007081
1442.4	0.0013033
1442.88	0.0003577
1443.37	0.0016111
1443.85	0.0021252
1444.33	0.0019248
1444.81	0.0011647
1445.29	-0.000057
1445.78	0.0003426
1446.26	-0.0005317
1446.74	-0.0010104
1447.22	-0.0006312
1447.7	-0.00066
1448.19	-0.0039192
1448.67	-0.0025053
1449.15	-0.0019658
1449.63	-0.0020538
1450.11	-0.0020464

Filenam LMA0112  
Subfile: 0490

Type: 40 deg C BB

WN	INT
748.245	41253.9
748.727	41568.1
749.209	41746.9
749.691	41935.2
750.173	42149
750.655	42406.6
751.137	42620.7
751.62	42818.9
752.102	42948.2
752.584	43111.8
753.066	43283.5
753.548	43468.3
754.03	43606.4
754.512	43715.1
754.994	44049.7
755.476	44252.2
755.959	44384
756.441	44564
756.923	44669.4
757.405	44762.5
757.887	44878.1
758.369	45070.4
758.851	45237.3
759.333	45363.2
759.816	45533.1
760.298	45706.6
760.78	45826.2
761.262	45902.2
761.744	46050
762.226	46152.9
762.708	46282.3
763.19	46384.1
763.672	46460.2
764.155	46568.5
764.637	46662.1
765.119	46742.8
765.601	46876
766.083	47025.4
766.565	47159.3
767.047	47254.7
767.529	47325.8
768.011	47389.2
768.494	47433.4
768.976	47551.2
769.458	47668.9
769.94	47746.1
770.422	47933.5

WN	INT
770.904	48104.5
771.386	48210.7
771.868	48308.5
772.351	48387.4
772.833	48450.7
773.315	48545.3
773.797	48647.3
774.279	48764.4
774.761	48867.1
775.243	48961.1
775.725	49027.5
776.208	49200.4
776.69	49265.9
777.172	49364.2
777.654	49536
778.136	49597.1
778.618	49685.1
779.1	49760.8
779.582	49860.5
780.064	49915.8
780.547	50053
781.029	50115.8
781.511	50196.4
781.993	50254.5
782.475	50278.6
782.957	50332.1
783.439	50357.6
783.921	50377.6
784.403	50250.6
784.886	50383.7
785.368	50434.3
785.85	50454.9
786.332	50433
786.814	50407.2
787.296	50409.3
787.778	50410.8
788.26	50367.5
788.743	50334.4
789.225	50267.7
789.707	50230.5
790.189	50131.7
790.671	50075.8
791.153	50026.3
791.635	49981.5
792.117	49916
792.599	49834.1
793.082	49761.8

WN	INT
793.564	49671.3
794.046	49569.3
794.528	49578.3
795.01	49503.3
795.492	49405.3
795.974	49157.1
796.456	49310.1
796.939	49185.6
797.421	49129.9
797.903	49099.2
798.385	48966.3
798.867	48848.7
799.349	48985.2
799.831	48940.3
800.313	48920.7
800.795	48869.1
801.278	48858.1
801.76	48859.9
802.242	48876.7
802.724	48934.3
803.206	48965.8
803.688	48962.8
804.17	49044.9
804.652	49119.6
805.134	49210.6
805.617	49313.7
806.099	49387.3
806.581	49487.8
807.063	49598.7
807.545	49738.5
808.027	49831
808.509	50021
808.991	50203
809.474	50340
809.956	50514.5
810.438	50679.2
810.92	50868.9
811.402	51031.3
811.884	51250
812.366	51362
812.848	51473.4
813.33	51627.9
813.813	51787.7
814.295	51939.3
814.777	52025.4
815.259	52140
815.741	52225.2

Filenam LMA0112  
Subfile: 0490

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
816.223	52357.4	838.883	60505.9	861.542	63002.5
816.705	52501.2	839.365	60651.9	862.024	63049.9
817.187	52609.2	839.847	60712.9	862.506	63110.3
817.669	52743.4	840.329	60828.5	862.989	63136.7
818.152	52875.5	840.811	60930.9	863.471	63165
818.634	52940.3	841.293	61023.4	863.953	63221.1
819.116	53045	841.775	61165.8	864.435	63304.8
819.598	53181.6	842.257	61282.7	864.917	63360.3
820.08	53263.4	842.74	61380.5	865.399	63429.1
820.562	53340.4	843.222	61464.4	865.881	63476.1
821.044	53469.9	843.704	61557.7	866.363	63501.4
821.526	53619.6	844.186	61639.8	866.845	63511.9
822.009	53762.7	844.668	61717.1	867.328	63541.7
822.491	53921	845.15	61766.8	867.81	63587
822.973	54121.2	845.632	61862.7	868.292	63630.1
823.455	54323.3	846.114	61967.9	868.774	63697.2
823.937	54537.7	846.597	62057.9	869.256	63730.6
824.419	54715.5	847.079	62111	869.738	63790
824.901	54911.1	847.561	62175.9	870.22	63875.1
825.383	55126	848.043	62269.9	870.702	63947
825.866	55350.1	848.525	62365.8	871.184	64005.7
826.348	55644.5	849.007	62389.1	871.667	64074.5
826.83	55906.8	849.489	62411.3	872.149	64092.4
827.312	56127.3	849.971	62426.1	872.631	64150.8
827.794	56368.7	850.453	62492.4	873.113	64200.7
828.276	56637.3	850.936	62536.3	873.595	64263.9
828.758	56896.9	851.418	62530.1	874.077	64274.2
829.24	57079.5	851.9	62576.3	874.559	64331.9
829.722	57247.2	852.382	62542	875.041	64378.2
830.205	57472.4	852.864	62598.4	875.524	64415.9
830.687	57739.5	853.346	62686.7	876.006	64514.2
831.169	57950.9	853.828	62676.6	876.488	64556.8
831.651	58162.5	854.31	62685.6	876.97	64594
832.133	58357.3	854.792	62692.9	877.452	64621.1
832.615	58530.6	855.275	62749.9	877.934	64701.2
833.097	58733.4	855.757	62748.7	878.416	64804.4
833.579	58951.3	856.239	62712.3	878.898	64858
834.062	59136.5	856.721	62724.7	879.38	64931.7
834.544	59280.4	857.203	62737.8	879.863	64977.3
835.026	59445.2	857.685	62786.9	880.345	65060.5
835.508	59617.5	858.167	62826	880.827	65171.7
835.99	59725.7	858.649	62859.1	881.309	65248.2
836.472	59881.7	859.132	62908.5	881.791	65274.6
836.954	59991.3	859.614	62940.5	882.273	65320.2
837.436	60077.8	860.096	62953.5	882.755	65400.2
837.918	60181.4	860.578	62946.1	883.237	65492
838.401	60324.9	861.06	62979.4	883.72	65519.5



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Type: 40 deg C BB

WN	INT
884.202	65572.5
884.684	65591.1
885.166	65649.7
885.648	65684.4
886.13	65778.7
886.612	65833.9
887.094	65903.3
887.576	65951.9
888.059	66002.4
888.541	66038.2
889.023	66070.7
889.505	66078.5
889.987	66125.5
890.469	66118.1
890.951	66179
891.433	66278.7
891.915	66304.2
892.398	66323.7
892.88	66339.6
893.362	66382.2
893.844	66404.1
894.326	66488.5
894.808	66505.6
895.29	66499.6
895.772	66483.2
896.255	66517.6
896.737	66578.4
897.219	66621
897.701	66680.4
898.183	66691.1
898.665	66701
899.147	66722.2
899.629	66751.5
900.111	66725.7
900.594	66713.2
901.076	66736.5
901.558	66741.4
902.04	66750.7
902.522	66742.2
903.004	66750.3
903.486	66817.1
903.968	66843.9
904.45	66836
904.933	66837.5
905.415	66828.3
905.897	66853.3
906.379	66876

WN	INT
906.861	66900.8
907.343	66903.1
907.825	66882.5
908.307	66866.3
908.79	66878.6
909.272	66924.1
909.754	66880.4
910.236	66896.4
910.718	66884.1
911.2	66845.1
911.682	66823.1
912.164	66832.1
912.647	66821.8
913.129	66784.5
913.611	66812.4
914.093	66838.9
914.575	66819.4
915.057	66775.7
915.539	66763.7
916.021	66781.5
916.503	66739.7
916.986	66716.9
917.468	66696.3
917.95	66702.9
918.432	66710
918.914	66689.5
919.396	66657.1
919.878	66621.3
920.36	66603.3
920.842	66558.8
921.325	66558.1
921.807	66557.5
922.289	66505.7
922.771	66461
923.253	66441.6
923.735	66450.2
924.217	66441.6
924.699	66447.2
925.182	66442.8
925.664	66392.2
926.146	66327
926.628	66316.9
927.11	66302.6
927.592	66285.7
928.074	66263.8
928.556	66293.1
929.039	66325.1

WN	INT
929.521	66320.3
930.003	66310.8
930.485	66243.5
930.967	66244
931.449	66238.9
931.931	66217.1
932.413	66240
932.895	66209.3
933.378	66193.5
933.86	66124.3
934.342	66139.8
934.824	66174.1
935.306	66118.2
935.788	66158.6
936.27	66128.1
936.752	66067.8
937.234	66063.6
937.717	66074.3
938.199	66021.5
938.681	66040.4
939.163	65999.4
939.645	65978.1
940.127	65954.4
940.609	65892.7
941.091	65886.8
941.574	65859
942.056	65822.4
942.538	65779
943.02	65741.4
943.502	65721.4
943.984	65675.1
944.466	65666.4
944.948	65657.6
945.43	65622
945.913	65604
946.395	65567.6
946.877	65530.3
947.359	65464.6
947.841	65463.6
948.323	65480.6
948.805	65440.8
949.287	65420.7
949.769	65390.3
950.252	65301.9
950.734	65273.6
951.216	65256.7
951.698	65240.7

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Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
952.18	65210.5	974.84	62782.4	997.499	58733.7
952.662	65171	975.322	62719.3	997.981	58567.3
953.144	65148.6	975.804	62634.6	998.463	58442.6
953.626	65100.7	976.286	62545	998.945	58326.2
954.109	65034	976.768	62468.8	999.427	58148.4
954.591	64978	977.25	62369.4	999.91	57976
955.073	64951	977.732	62298.5	1000.39	57863
955.555	64901.7	978.214	62249.8	1000.87	57709.2
956.037	64873.8	978.697	62150.1	1001.35	57563.3
956.519	64848.2	979.179	62028.8	1001.83	57430
957.001	64815.9	979.661	61955.4	1002.32	57285.9
957.483	64794.9	980.143	61852.9	1002.8	57108
957.965	64732.9	980.625	61802.9	1003.28	56928.8
958.448	64652.7	981.107	61726.9	1003.76	56735.9
958.93	64571.7	981.589	61690.7	1004.24	56541.8
959.412	64568.3	982.071	61616.7	1004.73	56337
959.894	64513.9	982.553	61533.7	1005.21	56148.8
960.376	64454.9	983.036	61465.7	1005.69	55968.5
960.858	64336.7	983.518	61366.2	1006.17	55823
961.34	64316.4	984	61288.9	1006.65	55607.8
961.822	64283.6	984.482	61182.7	1007.14	55358.8
962.305	64226.3	984.964	61088.1	1007.62	55125.9
962.787	64167.3	985.446	60991.1	1008.1	54890.4
963.269	64087.1	985.928	60900.7	1008.58	54670.5
963.751	64065.3	986.41	60841.3	1009.07	54450.9
964.233	64023.2	986.892	60795.9	1009.55	54215
964.715	63971.8	987.375	60743.6	1010.03	54000.5
965.197	63869.2	987.857	60671.7	1010.51	53713.6
965.679	63804.3	988.339	60586.6	1010.99	53514.2
966.162	63812	988.821	60500.5	1011.48	53282.9
966.644	63762.4	989.303	60419.4	1011.96	53058.4
967.126	63726.4	989.785	60310.1	1012.44	52806.9
967.608	63682.2	990.267	60231.2	1012.92	52570.1
968.09	63637	990.749	60127.6	1013.4	52369.5
968.572	63552.2	991.232	60036.3	1013.89	52155.3
969.054	63526.8	991.714	59927.6	1014.37	51981.1
969.536	63441.4	992.196	59836.9	1014.85	51797
970.018	63379.5	992.678	59756.8	1015.33	51583.9
970.501	63332.7	993.16	59675.3	1015.82	51386.8
970.983	63265	993.642	59564.7	1016.3	51166.3
971.465	63210.1	994.124	59462.3	1016.78	50967.7
971.947	63113.4	994.606	59341	1017.26	50811.4
972.429	63025.4	995.088	59214	1017.74	50681.7
972.911	63002.4	995.571	59102.1	1018.23	50511.1
973.393	62953.6	996.053	59012.2	1018.71	50365.1
973.875	62874.1	996.535	58928.6	1019.19	50246.1
974.357	62837.6	997.017	58847.1	1019.67	50088.9

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Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1020.15	49934.6	1042.81	46171.3	1065.47	43004.4
1020.64	49791.5	1043.29	46107.7	1065.95	42896
1021.12	49640	1043.78	46043	1066.43	42843.7
1021.6	49520.9	1044.26	45952.3	1066.91	42766.3
1022.08	49425.1	1044.74	45890.4	1067.4	42659.4
1022.56	49280.9	1045.22	45862.2	1067.88	42520.8
1023.05	49150.1	1045.7	45788.9	1068.36	42380
1023.53	49038.6	1046.19	45763.1	1068.84	42322
1024.01	48974.2	1046.67	45728.4	1069.32	42252.1
1024.49	48866.9	1047.15	45642	1069.81	42131.6
1024.98	48766.1	1047.63	45544.5	1070.29	42032.4
1025.46	48683.5	1048.11	45477.5	1070.77	41910.7
1025.94	48601.7	1048.6	45479	1071.25	41808.1
1026.42	48523	1049.08	45414.9	1071.73	41694.2
1026.9	48485.6	1049.56	45358.2	1072.22	41580.6
1027.39	48423.4	1050.04	45344.1	1072.7	41487.4
1027.87	48315.6	1050.52	45304.8	1073.18	41372.5
1028.35	48307.9	1051.01	45258.1	1073.66	41241.6
1028.83	48203.3	1051.49	45195.6	1074.15	41137.8
1029.31	48103.9	1051.97	45133.7	1074.63	41054.7
1029.8	48074.2	1052.45	45104.5	1075.11	40947.2
1030.28	48013.3	1052.93	45058.3	1075.59	40873
1030.76	47994.8	1053.42	45001.5	1076.07	40808.5
1031.24	47938.5	1053.9	44962.8	1076.56	40689.3
1031.72	47854.1	1054.38	44838.7	1077.04	40534.6
1032.21	47777.7	1054.86	44791	1077.52	40425.5
1032.69	47756.1	1055.35	44729.1	1078	40300.2
1033.17	47665.1	1055.83	44646.5	1078.48	40175.2
1033.65	47554.6	1056.31	44601.4	1078.97	40023.3
1034.13	47482.1	1056.79	44555.5	1079.45	39869.6
1034.62	47460.1	1057.27	44492.7	1079.93	39767.3
1035.1	47425.9	1057.76	44428.3	1080.41	39680.6
1035.58	47377.7	1058.24	44347.2	1080.89	39572.9
1036.06	47286.9	1058.72	44293.9	1081.38	39425.7
1036.54	47217.9	1059.2	44213.3	1081.86	39308
1037.03	47125.5	1059.68	44150.4	1082.34	39207.4
1037.51	47065	1060.17	44059.6	1082.82	39098.1
1037.99	46986.6	1060.65	43926.7	1083.3	39014.1
1038.47	46909.6	1061.13	43856.8	1083.79	38892.6
1038.96	46844.9	1061.61	43838.9	1084.27	38799.4
1039.44	46774.8	1062.09	43756.7	1084.75	38669.5
1039.92	46663.1	1062.58	43665.8	1085.23	38543.8
1040.4	46555.8	1063.06	43540.8	1085.71	38444.1
1040.88	46471.2	1063.54	43443.9	1086.2	38356.8
1041.37	46375.9	1064.02	43344	1086.68	38233.3
1041.85	46306.4	1064.5	43243.6	1087.16	38080.5
1042.33	46231.7	1064.99	43121.5	1087.64	37995.6

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Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1088.12	37874	1110.78	35166	1133.44	35115.5
1088.61	37788.9	1111.26	35200	1133.92	35111.9
1089.09	37749	1111.75	35138	1134.4	35097.8
1089.57	37648.3	1112.23	35100.8	1134.88	35116.1
1090.05	37516.2	1112.71	35038.7	1135.37	35100.6
1090.54	37414.4	1113.19	35000.2	1135.85	34932.3
1091.02	37339	1113.67	34986	1136.33	35153.4
1091.5	37258.8	1114.16	34983.9	1136.81	35161.9
1091.98	37127.5	1114.64	34971.8	1137.29	35102.2
1092.46	37030.1	1115.12	34966.9	1137.78	35078.5
1092.95	36920.2	1115.6	34948.7	1138.26	35054.5
1093.43	36805.7	1116.08	34890.4	1138.74	35085.4
1093.91	36745.6	1116.57	34857.6	1139.22	35146.5
1094.39	36675.4	1117.05	34854.8	1139.7	35151.3
1094.87	36557	1117.53	34844.9	1140.19	35108.6
1095.36	36457.8	1118.01	34781.1	1140.67	35107.5
1095.84	36373.7	1118.49	34779.8	1141.15	35097.3
1096.32	36294.9	1118.98	34767.8	1141.63	35087.3
1096.8	36231.9	1119.46	34791.1	1142.12	35034.5
1097.28	36146.9	1119.94	34768.7	1142.6	35010.5
1097.77	36066.8	1120.42	34798.9	1143.08	34988.3
1098.25	35973.1	1120.9	34787.1	1143.56	34980
1098.73	35963.1	1121.39	34746.1	1144.04	34960.9
1099.21	35905.7	1121.87	34771	1144.53	34943
1099.69	35852	1122.35	34794.1	1145.01	34917.3
1100.18	35816	1122.83	34792.4	1145.49	34887.6
1100.66	35760.6	1123.31	34778.1	1145.97	34877.8
1101.14	35768.8	1123.8	34789.7	1146.45	34854.6
1101.62	35703.7	1124.28	34829.4	1146.94	34807.4
1102.1	35647.2	1124.76	34829.9	1147.42	34768.9
1102.59	35601.8	1125.24	34827.9	1147.9	34727.8
1103.07	35541.7	1125.73	34870	1148.38	34722.9
1103.55	35479.3	1126.21	34884.2	1148.86	34703.6
1104.03	35447.4	1126.69	34895.6	1149.35	34609.4
1104.51	35426.2	1127.17	34925.3	1149.83	34596
1105	35378.4	1127.65	34915.5	1150.31	34613
1105.48	35347	1128.14	34933.9	1150.79	34613
1105.96	35329.1	1128.62	34938	1151.27	34604.6
1106.44	35286.2	1129.1	34955.9	1151.76	34509.5
1106.93	35208.6	1129.58	34991.4	1152.24	34443.1
1107.41	35204.8	1130.06	35013.9	1152.72	34398.2
1107.89	35205.3	1130.55	35001.5	1153.2	34383.5
1108.37	35207	1131.03	35017	1153.68	34377.5
1108.85	35190.6	1131.51	35028.9	1154.17	34309.8
1109.34	35181.4	1131.99	35083	1154.65	34257.6
1109.82	35149.1	1132.47	35095.1	1155.13	34192.8
1110.3	35151.8	1132.96	35095.8	1155.61	34116.7

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Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1156.09	34054	1178.75	31571.1	1201.41	29553.4
1156.58	33982.8	1179.23	31521.7	1201.89	29514.3
1157.06	33959.7	1179.72	31471.5	1202.37	29462.7
1157.54	33970.9	1180.2	31409.6	1202.85	29407.3
1158.02	33931.5	1180.68	31354.5	1203.34	29326.8
1158.5	33846.6	1181.16	31308.2	1203.82	29284
1158.99	33787.6	1181.64	31264.5	1204.3	29213
1159.47	33766	1182.13	31214.5	1204.78	29168.2
1159.95	33752.7	1182.61	31191.5	1205.26	29117
1160.43	33712.9	1183.09	31153.1	1205.75	29066.9
1160.92	33644.3	1183.57	31099.1	1206.23	29010.4
1161.4	33571.7	1184.05	31052.6	1206.71	28937.3
1161.88	33503.3	1184.54	30998.8	1207.19	28910.4
1162.36	33422.4	1185.02	30965	1207.67	28847.1
1162.84	33358.3	1185.5	30925.3	1208.16	28815.7
1163.33	33298.1	1185.98	30901.1	1208.64	28763.4
1163.81	33257.9	1186.46	30809.9	1209.12	28705
1164.29	33200.8	1186.95	30545.6	1209.6	28638.3
1164.77	33157.8	1187.43	30739.8	1210.08	28566.6
1165.25	33052.1	1187.91	30711.7	1210.57	28511.8
1165.74	33034.1	1188.39	30681.3	1211.05	28446.1
1166.22	32978.2	1188.87	30648.8	1211.53	28402.4
1166.7	32916.6	1189.36	30573.8	1212.01	28276.5
1167.18	32870.2	1189.84	30549.6	1212.5	28157.4
1167.66	32821	1190.32	30503.1	1212.98	28269.3
1168.15	32789.7	1190.8	30467.4	1213.46	28264.5
1168.63	32708.4	1191.28	30424	1213.94	28196.1
1169.11	32671.5	1191.77	30365	1214.42	28120.9
1169.59	32608.5	1192.25	30320.7	1214.91	28082.8
1170.07	32544.3	1192.73	30311.9	1215.39	28020.1
1170.56	32468.3	1193.21	30290.2	1215.87	27982.1
1171.04	32430	1193.7	30218.1	1216.35	27920
1171.52	32362.7	1194.18	30194.1	1216.83	27867.7
1172	32285.3	1194.66	30146.2	1217.32	27843.1
1172.48	32243.2	1195.14	30097.4	1217.8	27804.8
1172.97	32207	1195.62	30056.6	1218.28	27706.5
1173.45	32146.8	1196.11	30017.6	1218.76	27624.8
1173.93	32127.1	1196.59	29953.5	1219.24	27627.1
1174.41	31859.2	1197.07	29920.8	1219.73	27580.2
1174.89	32005.4	1197.55	29891.2	1220.21	27525
1175.38	31971	1198.03	29744.6	1220.69	27473.7
1175.86	31920.8	1198.52	29742.6	1221.17	27423.8
1176.34	31879.7	1199	29777.2	1221.65	27374.7
1176.82	31820.1	1199.48	29751.2	1222.14	27333.3
1177.31	31751.1	1199.96	29656.6	1222.62	27341
1177.79	31675.9	1200.44	29602.4	1223.1	27314.6
1178.27	31626.4	1200.93	29570.3	1223.58	27235.4

Filenam LMA0112  
Subfile: 0490

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1224.06	27185.2	1246.72	24329.3	1269.38	21426.5
1224.55	27066.2	1247.2	24259.6	1269.86	21019.1
1225.03	26732.4	1247.69	24167.5	1270.34	21400.4
1225.51	26896.6	1248.17	24093.4	1270.82	21530.1
1225.99	26906.7	1248.65	24019.6	1271.31	21430
1226.47	26863.4	1249.13	23924.5	1271.79	20624.3
1226.96	26865.5	1249.61	23828.7	1272.27	21529.5
1227.44	26814.1	1250.1	23742.9	1272.75	21606.8
1227.92	26720.2	1250.58	23661.8	1273.23	21594.7
1228.4	26654.3	1251.06	23562.9	1273.72	21566.2
1228.89	26614.6	1251.54	23435.9	1274.2	21556.1
1229.37	26539.9	1252.02	23309.2	1274.68	21541.5
1229.85	26481.3	1252.51	23177.8	1275.16	21530.3
1230.33	26418.6	1252.99	23047.2	1275.64	21555.4
1230.81	26363.3	1253.47	22890.9	1276.13	21534
1231.3	26308.2	1253.95	22751.9	1276.61	21483.4
1231.78	26252.6	1254.43	22562.5	1277.09	21457.4
1232.26	26216	1254.92	22360	1277.57	21409.4
1232.74	26149.3	1255.4	22166.1	1278.05	21380.2
1233.22	26091.7	1255.88	21978.2	1278.54	21351.7
1233.71	26037.7	1256.36	21788.8	1279.02	21300.9
1234.19	25956.7	1256.84	21605.4	1279.5	21266.2
1234.67	25902.6	1257.33	21392.1	1279.98	21056.9
1235.15	25833.4	1257.81	21201.6	1280.47	21167.9
1235.63	25781.5	1258.29	20988.7	1280.95	21133.5
1236.12	25737.5	1258.77	20798	1281.43	21094.3
1236.6	25668.4	1259.25	20677.5	1281.91	21071
1237.08	25614.8	1259.74	20499.1	1282.39	21044.2
1237.56	25572.1	1260.22	19829	1282.88	21004.3
1238.04	25508.3	1260.7	20067.7	1283.36	20960.8
1238.53	25460.2	1261.18	20237.4	1283.84	20920.6
1239.01	25362.2	1261.66	20203.2	1284.32	20799.2
1239.49	25373.6	1262.15	20189.4	1284.8	20820.6
1239.97	25307.1	1262.63	20202	1285.29	20758.6
1240.45	25212.7	1263.11	20230.2	1285.77	20707.9
1240.94	25154.6	1263.59	20299.6	1286.25	20667.9
1241.42	25078	1264.08	20343.2	1286.73	20605.1
1241.9	25016.9	1264.56	20486.2	1287.21	20190.5
1242.38	24948.4	1265.04	20559.2	1287.7	20234.4
1242.86	24861.9	1265.52	20623.9	1288.18	20084.1
1243.35	24815.9	1266	20660.9	1288.66	20363
1243.83	24636.6	1266.49	20806.4	1289.14	20331.9
1244.31	24395	1266.97	20961.2	1289.62	20383.7
1244.79	24572.9	1267.45	21084	1290.11	20294.7
1245.28	24546.8	1267.93	21148.8	1290.59	19946.3
1245.76	24456.5	1268.41	21023.1	1291.07	20279.1
1246.24	24416.2	1268.9	21401.9	1291.55	20224.4

Filenam LMA0112  
Subfile: 0490

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1292.03	20202.5	1314.69	17178.9	1337.35	15562.2
1292.52	20142.3	1315.17	17836.1	1337.83	15363
1293	20108.4	1315.66	17813.9	1338.31	14341.5
1293.48	20084.1	1316.14	17706.8	1338.79	13686.6
1293.96	20034.2	1316.62	17301.9	1339.28	13614.5
1294.44	20006	1317.1	16365.9	1339.76	14189.6
1294.93	19953.9	1317.58	17462.7	1340.24	12800.9
1295.41	19910.3	1318.07	17511	1340.72	13742.8
1295.89	19869.6	1318.55	16901.8	1341.2	15179.6
1296.37	19654	1319.03	15569.9	1341.69	15262.5
1296.85	19537.5	1319.51	17267.7	1342.17	15278.8
1297.34	19695.8	1319.99	16813.1	1342.65	15285.3
1297.82	19690.7	1320.48	17244.8	1343.13	15276.7
1298.3	19642.5	1320.96	17011	1343.61	15263.3
1298.78	19599.1	1321.44	17438.5	1344.1	15217.1
1299.27	19557.5	1321.92	17432.5	1344.58	15235.3
1299.75	19530.8	1322.4	17418.2	1345.06	15219.6
1300.23	19490.6	1322.89	17360.7	1345.54	15180.6
1300.71	19441.1	1323.37	17136.2	1346.02	15146.9
1301.19	19390.1	1323.85	17346.6	1346.51	15127.6
1301.68	19324.6	1324.33	17358.5	1346.99	15090.2
1302.16	19275.4	1324.81	17328.5	1347.47	15037.3
1302.64	19255.9	1325.3	17281.6	1347.95	15015.5
1303.12	19213.6	1325.78	17256.6	1348.43	14941.4
1303.6	19166.4	1326.26	17217.1	1348.92	14699.4
1304.09	19113.2	1326.74	17211	1349.4	14107.1
1304.57	19055.5	1327.22	17174	1349.88	14763.4
1305.05	18986.1	1327.71	17085.1	1350.36	14763.1
1305.53	18869.2	1328.19	17084	1350.85	14727.1
1306.01	18886.9	1328.67	17062.2	1351.33	14679.8
1306.5	18823	1329.15	17011.2	1351.81	14645.6
1306.98	18768.5	1329.63	16872.1	1352.29	14562.5
1307.46	18736	1330.12	16717.3	1352.77	14548.9
1307.94	18389.4	1330.6	16847.9	1353.26	14478.7
1308.42	18260.1	1331.08	16795.1	1353.74	14397
1308.91	18563.9	1331.56	16727.1	1354.22	14290.3
1309.39	18521.5	1332.05	16639.5	1354.7	13477.8
1309.87	18429.6	1332.53	16544.1	1355.18	13794
1310.35	18395.9	1333.01	16506.8	1355.67	14098.1
1310.83	18330.4	1333.49	16418	1356.15	14081
1311.32	18300.1	1333.97	16323.2	1356.63	14008.4
1311.8	18243.6	1334.46	16254.3	1357.11	13912.4
1312.28	17531.9	1334.94	16153.2	1357.59	13787.7
1312.76	17259.2	1335.42	16027.1	1358.08	13272.5
1313.24	17615.8	1335.9	15961.2	1358.56	13695.9
1313.73	17181.8	1336.38	15126.9	1359.04	13627
1314.21	17818	1336.87	14116.4	1359.52	13564.3

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Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1360	13470.4	1382.66	12160	1405.32	9032.47
1360.49	13196.1	1383.14	12081	1405.8	10339.1
1360.97	11340.2	1383.63	12050.8	1406.28	10488.6
1361.45	12524.6	1384.11	12021.1	1406.76	10542.8
1361.93	12965.8	1384.59	11961.1	1407.25	10545.5
1362.41	12029.1	1385.07	11877.5	1407.73	10583.5
1362.9	10680	1385.55	11764.8	1408.21	10539.6
1363.38	9981.76	1386.04	11344.2	1408.69	10525.7
1363.86	12858.6	1386.52	10199.2	1409.17	10526
1364.34	13099.6	1387	10521.3	1409.66	10266.8
1364.82	13133.4	1387.48	8003.78	1410.14	9975.02
1365.31	13118.6	1387.96	10413.3	1410.62	10397.1
1365.79	13120.8	1388.45	11259.7	1411.1	10201.3
1366.27	13060.2	1388.93	11383.7	1411.58	9630.57
1366.75	13074.9	1389.41	11366	1412.07	9731.78
1367.24	13038.2	1389.89	11313	1412.55	10231.4
1367.72	12976.8	1390.37	11182.8	1413.03	10171.8
1368.2	12477.5	1390.86	10957.6	1413.51	10097.5
1368.68	11075.9	1391.34	11059.6	1413.99	10003
1369.16	12768.9	1391.82	11084.8	1414.48	9912.3
1369.65	12768	1392.3	10996.7	1414.96	9807.02
1370.13	12752.4	1392.78	10898.9	1415.44	9777.2
1370.61	12772.8	1393.27	10733.2	1415.92	9033.34
1371.09	12698	1393.75	10230.8	1416.4	9104.53
1371.57	12697.4	1394.23	8170.62	1416.89	9067.52
1372.06	12458.9	1394.71	7554	1417.37	7363.24
1372.54	12344	1395.19	9730.19	1417.85	8608.43
1373.02	12237.7	1395.68	8641.59	1418.33	8615.44
1373.5	10654.6	1396.16	9539.21	1418.81	6874.64
1373.98	9782.04	1396.64	10345	1419.3	5313.22
1374.47	11731.6	1397.12	10334.7	1419.78	6418.97
1374.95	10417.9	1397.6	9182.09	1420.26	8593.54
1375.43	11291.1	1398.09	9699.98	1420.74	9093.03
1375.91	12191.2	1398.57	9574.19	1421.23	9222.69
1376.39	12282.4	1399.05	7491.47	1421.71	9307.2
1376.88	12311	1399.53	8545.5	1422.19	9322.87
1377.36	12298.4	1400.01	10116.8	1422.67	9264.12
1377.84	11722.1	1400.5	10366.4	1423.15	8898.02
1378.32	11872.5	1400.98	10445.8	1423.64	7537.82
1378.8	12202.5	1401.46	10492.3	1424.12	7593.67
1379.29	12050.8	1401.94	10497.1	1424.6	9270.23
1379.77	11743.2	1402.43	10496.6	1425.08	9539.96
1380.25	12191	1402.91	10478.5	1425.56	9605.68
1380.73	12267	1403.39	10403.1	1426.05	9601.09
1381.21	12269	1403.87	10394.9	1426.53	9608.8
1381.7	12188.4	1404.35	9971.82	1427.01	9622.48
1382.18	12064.7	1404.84	8262.3	1427.49	9606.05

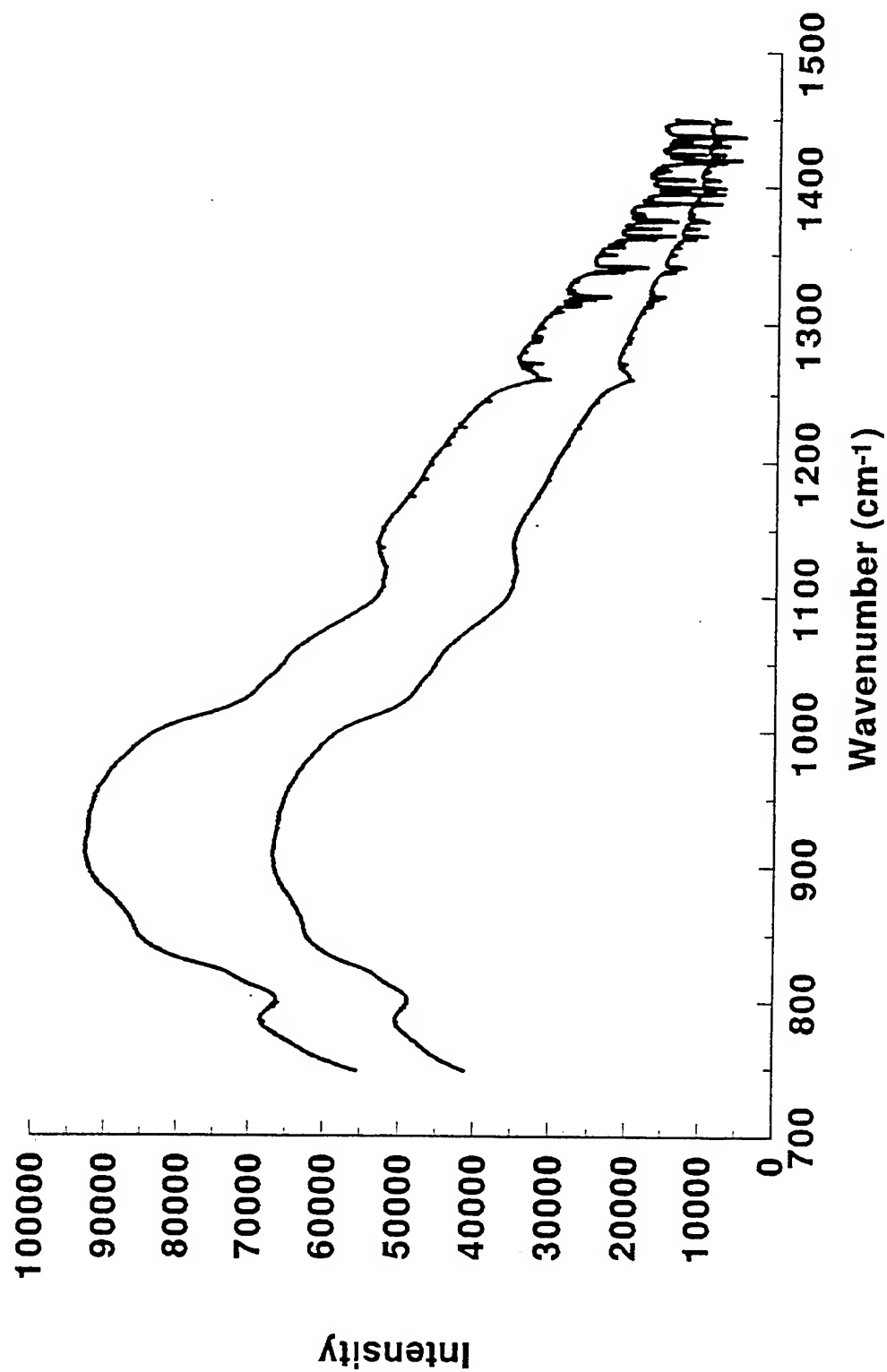


Filenam LMA0112  
Subfile: 0490

Type: 40 deg C BB

WN	INT
1427.97	9412.68
1428.46	9166.4
1428.94	9394.67
1429.42	8746.15
1429.9	6941.31
1430.38	8572.55
1430.87	9222.35
1431.35	9305.56
1431.83	9020.94
1432.31	9082.35
1432.79	8989
1433.28	8231.23
1433.76	8991.14
1434.24	9068.28
1434.72	8975.15
1435.2	8646.07
1435.69	7756.28
1436.17	6995.06
1436.65	4797.33
1437.13	6148.11
1437.62	8356.89
1438.1	8872.45
1438.58	9038.51
1439.06	9144.65
1439.54	9212.37
1440.03	9243.27
1440.51	9258.09
1440.99	9283.64
1441.47	9245.35
1441.95	9365.84
1442.44	9364.21
1442.92	9337.13
1443.4	9337.71
1443.88	9345.29
1444.36	9334.56
1444.85	9228.28
1445.33	9155.42
1445.81	9215.8
1446.29	8992.64
1446.77	8923.17
1447.26	8563.46
1447.74	6935.58
1448.22	6962.94
1448.7	8557.19
1449.18	8783.13
1449.67	8792.34
1450.15	8747.22

**Blackbody Response at 40°C and 80°C**  
**LMA0112**



Filenam LMA0112  
Subfile: 0402

Type: 80 deg C BB

WN	INT
748.245	55569.4
748.727	56105.5
749.209	56406.1
749.691	56597.8
750.173	56932.9
750.655	57236.2
751.137	57463.1
751.62	57748.2
752.102	57916.8
752.584	58220.4
753.066	58438.2
753.548	58706.7
754.03	58770.6
754.512	58851.7
754.994	59468
755.476	59736.1
755.959	59879.1
756.441	60226.9
756.923	60364.9
757.405	60455.4
757.887	60649.4
758.369	60909
758.851	61141.5
759.333	61290.3
759.816	61543.8
760.298	61765.5
760.78	61876.8
761.262	62029.6
761.744	62186.1
762.226	62359.2
762.708	62540.5
763.19	62716.3
763.672	62744.7
764.155	62853.7
764.637	63015.6
765.119	63140.9
765.601	63322.5
766.083	63532.1
766.565	63650.7
767.047	63789.2
767.529	63961.5
768.011	64112.6
768.494	64205.9
768.976	64269.2
769.458	64492.8
769.94	64545.9
770.422	64789.2

WN	INT
770.904	65030.7
771.386	65176.9
771.868	65300
772.351	65442.2
772.833	65541.8
773.315	65707.5
773.797	65880.5
774.279	66066.1
774.761	66182.7
775.243	66392.4
775.725	66380.4
776.208	66577.4
776.69	66705.7
777.172	66694.1
777.654	67054
778.136	67155
778.618	67259.4
779.1	67378.3
779.582	67523.2
780.064	67711.4
780.547	67816.5
781.029	67916.5
781.511	68044.8
781.993	68153.5
782.475	68197.1
782.957	68256.4
783.439	68276.8
783.921	68299.9
784.403	67983.5
784.886	68351.5
785.368	68450
785.85	68476.1
786.332	68424.5
786.814	68416.9
787.296	68387.5
787.778	68387.5
788.26	68369.2
788.743	68330.2
789.225	68304.7
789.707	68239.2
790.189	68112.9
790.671	68023.4
791.153	67944.9
791.635	67849.7
792.117	67787.2
792.599	67696.4
793.082	67635.1

WN	INT
793.564	67479
794.046	67212.9
794.528	67323.6
795.01	67207.4
795.492	67040.2
795.974	66522.6
796.456	67001
796.939	66902
797.421	66731.3
797.903	66718.4
798.385	66355.9
798.867	66102.1
799.349	66450.7
799.831	66422.7
800.313	66335.8
800.795	66376.1
801.278	66353.6
801.76	66363.3
802.242	66334.4
802.724	66415.3
803.206	66418.5
803.688	66401.2
804.17	66591
804.652	66658.7
805.134	66766.6
805.617	66938.1
806.099	67071.4
806.581	67221.5
807.063	67425
807.545	67594.8
808.027	67712.3
808.509	68001.5
808.991	68236.8
809.474	68439.9
809.956	68653.3
810.438	68914.4
810.92	69132.1
811.402	69365.6
811.884	69685.5
812.366	69932.9
812.848	70073.8
813.33	70242.5
813.813	70433.8
814.295	70674.2
814.777	70791.5
815.259	71039
815.741	71194

Filenam LMA0112  
Subfile: 0402

Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
816.223	71330.7	838.883	82800	861.542	86442.2
816.705	71524.1	839.365	82976.4	862.024	86488.9
817.187	71698.1	839.847	83056.2	862.506	86620.3
817.669	71862.3	840.329	83336.8	862.989	86687.9
818.152	72037.9	840.811	83514.4	863.471	86695.1
818.634	72151.6	841.293	83560.9	863.953	86773.1
819.116	72337.8	841.775	83649.7	864.435	86844.8
819.598	72468.7	842.257	83815.4	864.917	86936
820.08	72593.5	842.74	84000.5	865.399	87017.4
820.562	72787.3	843.222	84067.6	865.881	87179.6
821.044	72970.5	843.704	84218.4	866.363	87216.1
821.526	73137.9	844.186	84349.2	866.845	87194
822.009	73332.7	844.668	84434.4	867.328	87290
822.491	73589.2	845.15	84547.1	867.81	87347.3
822.973	73787.5	845.632	84626.8	868.292	87453
823.455	74105.2	846.114	84754.2	868.774	87539
823.937	74373.4	846.597	84881.1	869.256	87609
824.419	74595.7	847.079	84966.3	869.738	87643.7
824.901	74975.9	847.561	85059.4	870.22	87792.8
825.383	75305.9	848.043	85212.1	870.702	87883.4
825.866	75599.1	848.525	85361.7	871.184	87875.9
826.348	75977	849.007	85424.1	871.667	88020.8
826.83	76356.2	849.489	85392.5	872.149	88147.5
827.312	76650.1	849.971	85464.6	872.631	88234.6
827.794	76901.5	850.453	85533.1	873.113	88305.5
828.276	77389.5	850.936	85594.5	873.595	88370.4
828.758	77723	851.418	85634.3	874.077	88437.2
829.24	78078.3	851.9	85666.2	874.559	88494.4
829.722	78320.8	852.382	85534	875.041	88558.5
830.205	78627.9	852.864	85597.6	875.524	88671.9
830.687	78943.9	853.346	85823.2	876.006	88758.5
831.169	79197	853.828	85855.5	876.488	88870.9
831.651	79488.3	854.31	85818.7	876.97	88909.2
832.133	79815.1	854.792	85798.7	877.452	89066.4
832.615	80094.9	855.275	85960.3	877.934	89138.2
833.097	80292.9	855.757	85991.7	878.416	89218.2
833.579	80586	856.239	86013.2	878.898	89339.9
834.062	80851.7	856.721	86046.5	879.38	89476.9
834.544	81093.6	857.203	86044.3	879.863	89541.4
835.026	81309	857.685	86122.4	880.345	89687.1
835.508	81517.6	858.167	86161.6	880.827	89836.8
835.99	81723.2	858.649	86238.8	881.309	89932.6
836.472	81889	859.132	86301.2	881.791	90007.6
836.954	82079.8	859.614	86360.9	882.273	90111.5
837.436	82206.9	860.096	86384.4	882.755	90248
837.918	82362.2	860.578	86393.3	883.237	90321.2
838.401	82540.7	861.06	86430.8	883.72	90417.4

Filenam LMA0112  
Subfile: 0402

Type: 80 deg C BB

WN	INT
884.202	90517.1
884.684	90601.9
885.166	90700.7
885.648	90794.1
886.13	90923.5
886.612	90981.4
887.094	91000.2
887.576	91026.1
888.059	91141.6
888.541	91264.3
889.023	91262.6
889.505	91306.4
889.987	91404.8
890.469	91478.5
890.951	91559.5
891.433	91670.6
891.915	91747.9
892.398	91732
892.88	91773.3
893.362	91818.3
893.844	91864.6
894.326	91989.5
894.808	92091.1
895.29	92120.9
895.772	92124.9
896.255	92120.5
896.737	92154.2
897.219	92181.8
897.701	92271.7
898.183	92351.7
898.665	92377.8
899.147	92378.7
899.629	92463.8
900.111	92431.8
900.594	92413.6
901.076	92445.7
901.558	92478.5
902.04	92515.1
902.522	92503.2
903.004	92538.2
903.486	92643.8
903.968	92657
904.45	92648.4
904.933	92719.8
905.415	92653.4
905.897	92668.4
906.379	92728.9

WN	INT
906.861	92768.6
907.343	92805.7
907.825	92799.7
908.307	92748.9
908.79	92736.6
909.272	92822.2
909.754	92863.2
910.236	92852.2
910.718	92836.3
911.2	92832.1
911.682	92771.8
912.164	92778.7
912.647	92720.8
913.129	92716.3
913.611	92804.8
914.093	92827.6
914.575	92840.6
915.057	92817.5
915.539	92822.5
916.021	92837.8
916.503	92868.4
916.986	92809.5
917.468	92782.6
917.95	92761
918.432	92734.1
918.914	92757
919.396	92780.2
919.878	92672.6
920.36	92635.5
920.842	92615.3
921.325	92587
921.807	92548.7
922.289	92469.7
922.771	92516.3
923.253	92499
923.735	92522
924.217	92542
924.699	92514.5
925.182	92452.7
925.664	92469.3
926.146	92411.3
926.628	92437.8
927.11	92414.7
927.592	92380
928.074	92369.7
928.556	92382.2
929.039	92381.8

WN	INT
929.521	92406.8
930.003	92421.6
930.485	92369
930.967	92334.2
931.449	92350.4
931.931	92437.4
932.413	92394.7
932.895	92365.3
933.378	92399.3
933.86	92337.2
934.342	92325.9
934.824	92322
935.306	92337.2
935.788	92359.1
936.27	92393.6
936.752	92304.8
937.234	92266.5
937.717	92291
938.199	92267.3
938.681	92280.2
939.163	92297.9
939.645	92228.5
940.127	92139.4
940.609	92076.3
941.091	92020.7
941.574	92052.8
942.056	91976.3
942.538	91962.5
943.02	91934.2
943.502	91945.1
943.984	91942.1
944.466	91838.1
944.948	91823.2
945.43	91860.5
945.913	91820.4
946.395	91746.3
946.877	91723.7
947.359	91659.1
947.841	91625.8
948.323	91603.5
948.805	91624.3
949.287	91607.2
949.769	91550.9
950.252	91523
950.734	91448.2
951.216	91485.5
951.698	91491.5

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Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
952.18	91483.4	974.84	88613.2	997.499	83643.7
952.662	91460.7	975.322	88524.1	997.981	83408.2
953.144	91355.1	975.804	88362	998.463	83210.9
953.626	91232.2	976.286	88288.3	998.945	83028.6
954.109	91138.3	976.768	88215.2	999.427	82853.6
954.591	91125.6	977.25	88071.1	999.91	82672.7
955.073	91150.4	977.732	87962.5	1000.39	82508.6
955.555	91096.8	978.214	87912.3	1000.87	82305.6
956.037	91047.6	978.697	87751.4	1001.35	82073.3
956.519	91110.2	979.179	87630.9	1001.83	81976.5
957.001	91028.4	979.661	87568.8	1002.32	81826.3
957.483	90985.1	980.143	87443.3	1002.8	81580.5
957.965	90943.4	980.625	87366.1	1003.28	81386.7
958.448	90838.8	981.107	87239.5	1003.76	81122.9
958.93	90728.3	981.589	87173.6	1004.24	80829.9
959.412	90624	982.071	87061.2	1004.73	80635.7
959.894	90593.5	982.553	86953.7	1005.21	80371.6
960.376	90546.8	983.036	86864	1005.69	80141
960.858	90436.3	983.518	86808.7	1006.17	79950.4
961.34	90367.7	984	86732.1	1006.65	79655.8
961.822	90351.9	984.482	86576.5	1007.14	79304.7
962.305	90303.5	984.964	86474.9	1007.62	78987.4
962.787	90170.8	985.446	86412.8	1008.1	78697.2
963.269	90084.6	985.928	86326.4	1008.58	78369
963.751	90059.4	986.41	86231.8	1009.07	78095.1
964.233	90033.4	986.892	86240.3	1009.55	77802.2
964.715	89982.7	987.375	86125.2	1010.03	77472.5
965.197	89908.5	987.857	86017.6	1010.51	77130.5
965.679	89827.1	988.339	85859.8	1010.99	76802.9
966.162	89778.1	988.821	85793.1	1011.48	76496.8
966.644	89761.1	989.303	85697.6	1011.96	76249.6
967.126	89667.4	989.785	85554.5	1012.44	75885.4
967.608	89647.1	990.267	85464.5	1012.92	75542.3
968.09	89614.6	990.749	85347.3	1013.4	75271.4
968.572	89514.1	991.232	85245.3	1013.89	75008.8
969.054	89493.4	991.714	85104.6	1014.37	74663.5
969.536	89397.5	992.196	85006.1	1014.85	74459.7
970.018	89320.1	992.678	84878.1	1015.33	74178.6
970.501	89269.4	993.16	84738.2	1015.82	73914.5
970.983	89243.9	993.642	84589	1016.3	73636.5
971.465	89151	994.124	84471.9	1016.78	73356.2
971.947	89052.4	994.606	84360.8	1017.26	73115.9
972.429	88896	995.088	84255.8	1017.74	72894.9
972.911	88840.4	995.571	84149.4	1018.23	72651.6
973.393	88755.8	996.053	83995.9	1018.71	72551.8
973.875	88673.2	996.535	83891.6	1019.19	72390.2
974.357	88649.2	997.017	83780.8	1019.67	72138.9

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WN	INT
1020.15	71908
1020.64	71750.4
1021.12	71552.3
1021.6	71338.1
1022.08	71137.9
1022.56	70985.9
1023.05	70785
1023.53	70669.5
1024.01	70602.7
1024.49	70448.5
1024.98	70253
1025.46	70114.4
1025.94	70000.8
1026.42	69866.6
1026.9	69838
1027.39	69740.6
1027.87	69598.2
1028.35	69567.7
1028.83	69438.2
1029.31	69332.5
1029.8	69246.9
1030.28	69178.9
1030.76	69162.3
1031.24	69079.6
1031.72	68971.3
1032.21	68861.3
1032.69	68833.2
1033.17	68742.6
1033.65	68648.5
1034.13	68549.4
1034.62	68429.4
1035.1	68392.4
1035.58	68318.4
1036.06	68189.8
1036.54	68097.4
1037.03	68020.4
1037.51	67951.8
1037.99	67785.1
1038.47	67672.5
1038.96	67582.2
1039.44	67442.2
1039.92	67347.3
1040.4	67243.9
1040.88	67081
1041.37	66973.3
1041.85	66877.9
1042.33	66745.5

WN	INT
1042.81	66618.3
1043.29	66619.5
1043.78	66523.1
1044.26	66388.5
1044.74	66329.8
1045.22	66343.5
1045.7	66188.9
1046.19	66116
1046.67	66062.9
1047.15	65980.3
1047.63	65900.5
1048.11	65766.6
1048.6	65718.4
1049.08	65631.8
1049.56	65579.1
1050.04	65573.1
1050.52	65522.7
1051.01	65402.3
1051.49	65330.5
1051.97	65307.2
1052.45	65307.2
1052.93	65247.5
1053.42	65207.9
1053.9	65120.9
1054.38	65018.4
1054.86	64970.9
1055.35	64892.6
1055.83	64810.8
1056.31	64720.9
1056.79	64612.1
1057.27	64559.6
1057.76	64457.9
1058.24	64348.2
1058.72	64285.7
1059.2	64164.9
1059.68	64087.3
1060.17	63998.8
1060.65	63815.5
1061.13	63748.8
1061.61	63726.8
1062.09	63655.1
1062.58	63446.4
1063.06	63284.1
1063.54	63198.2
1064.02	63089.3
1064.5	62932
1064.99	62870.4

WN	INT
1065.47	62693.9
1065.95	62447.5
1066.43	62381.3
1066.91	62321.8
1067.4	62171.4
1067.88	62041.1
1068.36	61884.6
1068.84	61762.8
1069.32	61677.6
1069.81	61552.9
1070.29	61368.6
1070.77	61161
1071.25	61064
1071.73	60936.4
1072.22	60786.8
1072.7	60651.9
1073.18	60526.2
1073.66	60333.4
1074.15	60225.9
1074.63	60121.1
1075.11	60015.3
1075.59	59870.8
1076.07	59779.4
1076.56	59654.9
1077.04	59459.6
1077.52	59278.1
1078	59121
1078.48	58946.9
1078.97	58805.9
1079.45	58607.8
1079.93	58440.6
1080.41	58283.3
1080.89	58168.6
1081.38	57964.6
1081.86	57806.8
1082.34	57647.7
1082.82	57571.2
1083.3	57431.3
1083.79	57243.2
1084.27	57066.8
1084.75	56944.4
1085.23	56763.9
1085.71	56648.8
1086.2	56473.9
1086.68	56348.4
1087.16	56209.8
1087.64	56041.9

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Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
1088.12	55892.8	1110.78	52540.5	1133.44	53001.5
1088.61	55783.4	1111.26	52564.3	1133.92	52984.9
1089.09	55693.9	1111.75	52535	1134.4	52988
1089.57	55606.5	1112.23	52439.1	1134.88	53013.7
1090.05	55457.4	1112.71	52381.8	1135.37	52940.5
1090.54	55339.6	1113.19	52352.7	1135.85	52485.4
1091.02	55141.5	1113.67	52309.8	1136.33	53024.5
1091.5	55021.9	1114.16	52363.7	1136.81	53078.3
1091.98	54867.4	1114.64	52386.4	1137.29	52957.2
1092.46	54706.5	1115.12	52393.4	1137.78	53021.7
1092.95	54589.9	1115.6	52338.6	1138.26	53050.6
1093.43	54458.4	1116.08	52236.5	1138.74	53080.7
1093.91	54367.6	1116.57	52250.8	1139.22	53160.6
1094.39	54265.5	1117.05	52312.5	1139.7	53210.9
1094.87	54145.2	1117.53	52325.1	1140.19	53135.2
1095.36	53992.3	1118.01	52243.4	1140.67	53103.1
1095.84	53914.7	1118.49	52247.3	1141.15	53067.7
1096.32	53788.5	1118.98	52217.1	1141.63	53027.2
1096.8	53701.6	1119.46	52234.4	1142.12	52999.4
1097.28	53634.5	1119.94	52185	1142.6	53006.4
1097.77	53538.4	1120.42	52203.8	1143.08	52971
1098.25	53404.8	1120.9	52198.7	1143.56	52944.1
1098.73	53365	1121.39	52103.7	1144.04	52930.4
1099.21	53241	1121.87	52271.6	1144.53	52885.1
1099.69	53166.2	1122.35	52322.4	1145.01	52834
1100.18	53174.9	1122.83	52371.2	1145.49	52791.6
1100.66	53140.9	1123.31	52338.9	1145.97	52788.6
1101.14	53114.1	1123.8	52350.6	1146.45	52754.2
1101.62	53076.1	1124.28	52448.5	1146.94	52710.3
1102.1	53020.7	1124.76	52438	1147.42	52655.8
1102.59	52973.2	1125.24	52482.1	1147.9	52635.5
1103.07	52920.9	1125.73	52566.9	1148.38	52605.9
1103.55	52784.1	1126.21	52606.6	1148.86	52583.4
1104.03	52736.8	1126.69	52626.8	1149.35	52387.7
1104.51	52708.5	1127.17	52632.7	1149.83	52411.2
1105	52657.1	1127.65	52620.3	1150.31	52498.4
1105.48	52654.6	1128.14	52668.3	1150.79	52543.1
1105.96	52630.3	1128.62	52682	1151.27	52526.8
1106.44	52555.5	1129.1	52732.7	1151.76	52397.8
1106.93	52384.6	1129.58	52796.9	1152.24	52254.1
1107.41	52478.7	1130.06	52848.1	1152.72	52205.1
1107.89	52506.7	1130.55	52875.2	1153.2	52184.8
1108.37	52499.7	1131.03	52868.8	1153.68	52187.9
1108.85	52500.7	1131.51	52890.3	1154.17	52155.4
1109.34	52479.8	1131.99	52956.1	1154.65	52040.1
1109.82	52497.8	1132.47	52948.9	1155.13	51993.1
1110.3	52516.8	1132.96	52931.7	1155.61	51885.6



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WN	INT
1156.09	51810.1
1156.58	51742.5
1157.06	51695.9
1157.54	51748.9
1158.02	51671.4
1158.5	51571.9
1158.99	51459
1159.47	51426.7
1159.95	51432.3
1160.43	51388.1
1160.92	51308.8
1161.4	51202.2
1161.88	51102.5
1162.36	50962.3
1162.84	50876.8
1163.33	50810.3
1163.81	50726.8
1164.29	50632.4
1164.77	50580.8
1165.25	50436
1165.74	50400.8
1166.22	50359.9
1166.7	50306.6
1167.18	50228.5
1167.66	50137.5
1168.15	50107
1168.63	49981.1
1169.11	49930.7
1169.59	49885.9
1170.07	49817.1
1170.56	49690.8
1171.04	49656.1
1171.52	49598.7
1172	49477.5
1172.48	49423.9
1172.97	49357
1173.45	49277.8
1173.93	49177.1
1174.41	48505.8
1174.89	49031.6
1175.38	49102.1
1175.86	49027.7
1176.34	48963.7
1176.82	48860.4
1177.31	48802.6
1177.79	48674.5
1178.27	48637.3

WN	INT
1178.75	48594.1
1179.23	48481.4
1179.72	48429.1
1180.2	48394
1180.68	48278.5
1181.16	48219.5
1181.64	48181.1
1182.13	48120.9
1182.61	48065.1
1183.09	48007.6
1183.57	47941
1184.05	47897.6
1184.54	47803.8
1185.02	47737
1185.5	47744.5
1185.98	47675.1
1186.46	47513.2
1186.95	46805.5
1187.43	47435.4
1187.91	47447
1188.39	47419.3
1188.87	47359.2
1189.36	47299.8
1189.84	47291.8
1190.32	47234.2
1190.8	47167.9
1191.28	47108.1
1191.77	47053.6
1192.25	47015.8
1192.73	46993.2
1193.21	46982.9
1193.7	46912.9
1194.18	46867.1
1194.66	46789.8
1195.14	46706.5
1195.62	46667.9
1196.11	46604.6
1196.59	46543.9
1197.07	46491.7
1197.55	46435.5
1198.03	46123.3
1198.52	46206
1199	46365.6
1199.48	46370.5
1199.96	46240.8
1200.44	46133.7
1200.93	46079.3

WN	INT
1201.41	46085.5
1201.89	46107.2
1202.37	46003.6
1202.85	45875.5
1203.34	45798
1203.82	45690.4
1204.3	45653.5
1204.78	45589.4
1205.26	45468.3
1205.75	45376.3
1206.23	45316.7
1206.71	45242.3
1207.19	45170.7
1207.67	45086
1208.16	45032.1
1208.64	44963.2
1209.12	44898.7
1209.6	44820.9
1210.08	44733.6
1210.57	44643.8
1211.05	44465.5
1211.53	44436.5
1212.01	44129.4
1212.5	43880.1
1212.98	44247.1
1213.46	44262.8
1213.94	44212.6
1214.42	44063.8
1214.91	44025.6
1215.39	44004.5
1215.87	43914.5
1216.35	43855.8
1216.83	43796.3
1217.32	43756.3
1217.8	43684.9
1218.28	43468.5
1218.76	43323.6
1219.24	43444.7
1219.73	43383.3
1220.21	43322.1
1220.69	43265.1
1221.17	43173.4
1221.65	43111.7
1222.14	43066.1
1222.62	43111.7
1223.1	43103.8
1223.58	43018.7

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Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
1224.06	42946.7	1246.72	38816.5	1269.38	34210.5
1224.55	42748.9	1247.2	38700.2	1269.86	33030.1
1225.03	41811.1	1247.69	38575.9	1270.34	34095.4
1225.51	42344.7	1248.17	38452.8	1270.82	34440.4
1225.99	42470.2	1248.65	38344.9	1271.31	34043.4
1226.47	42445.1	1249.13	38221.7	1271.79	31765.5
1226.96	42481.6	1249.61	38068.7	1272.27	34352.9
1227.44	42430.1	1250.1	37974.9	1272.75	34629.8
1227.92	42273.7	1250.58	37840.9	1273.23	34647.7
1228.4	42140	1251.06	37686.9	1273.72	34609
1228.89	42057.6	1251.54	37467.1	1274.2	34620.4
1229.37	41957.3	1252.02	37252	1274.68	34597.3
1229.85	41898.5	1252.51	37048.2	1275.16	34579.7
1230.33	41838.9	1252.99	36866.7	1275.64	34653.4
1230.81	41744.6	1253.47	36574.6	1276.13	34706.4
1231.3	41677.6	1253.95	36331.6	1276.61	34581.8
1231.78	41611	1254.43	36099	1277.09	34520.4
1232.26	41549	1254.92	35794.8	1277.57	34470.5
1232.74	41456.8	1255.4	35489	1278.05	34428.1
1233.22	41404.4	1255.88	35193.4	1278.54	34424.8
1233.71	41327.3	1256.36	34846	1279.02	34346.9
1234.19	41238.5	1256.84	34514.6	1279.5	34320.5
1234.67	41111.8	1257.33	34187.1	1279.98	33790.2
1235.15	41026.9	1257.81	33879.8	1280.47	34157.7
1235.63	40940.5	1258.29	33490.3	1280.95	34127.8
1236.12	40887.1	1258.77	33109.8	1281.43	34060.9
1236.6	40770.4	1259.25	32980.8	1281.91	34018.5
1237.08	40674.2	1259.74	32636.6	1282.39	33962
1237.56	40605.8	1260.22	30783.8	1282.88	33886.5
1238.04	40550.2	1260.7	31647.9	1283.36	33848
1238.53	40461.9	1261.18	32234.2	1283.84	33729.2
1239.01	40300.4	1261.66	32200.6	1284.32	33491.2
1239.49	40306.1	1262.15	32233.3	1284.8	33593.9
1239.97	40240.9	1262.63	32234.5	1285.29	33531.9
1240.45	40114.3	1263.11	32270.1	1285.77	33439.4
1240.94	40025.8	1263.59	32361	1286.25	33330.9
1241.42	39941.7	1264.08	32380.2	1286.73	33267.6
1241.9	39829.4	1264.56	32680	1287.21	32131.3
1242.38	39710.7	1265.04	32773.1	1287.7	32278.8
1242.86	39516.6	1265.52	32881.7	1288.18	31875.9
1243.35	39510.2	1266	32850	1288.66	32720
1243.83	39085.4	1266.49	33171.3	1289.14	32720.7
1244.31	38490.6	1266.97	33459.9	1289.62	32952.3
1244.79	39140.5	1267.45	33667.4	1290.11	32764.4
1245.28	39081.9	1267.93	33700.6	1290.59	31831.1
1245.76	38985.8	1268.41	33203.3	1291.07	32837.2
1246.24	38923.2	1268.9	34260.6	1291.55	32769.8

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Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
1292.03	32700	1314.69	26978.1	1337.35	24954.9
1292.52	32640.3	1315.17	28788.2	1337.83	24430
1293	32596.3	1315.66	28797.1	1338.31	21789.9
1293.48	32569.3	1316.14	28544.2	1338.79	20153.2
1293.96	32515.6	1316.62	27406.7	1339.28	19954.3
1294.44	32455.9	1317.1	24851.9	1339.76	21282.3
1294.93	32406.9	1317.58	28021.1	1340.24	17903.9
1295.41	32342.6	1318.07	28192.4	1340.72	20538.2
1295.89	32275.2	1318.55	26471	1341.2	24326.4
1296.37	31675.6	1319.03	22946.5	1341.69	24684.7
1296.85	31465.1	1319.51	27589.1	1342.17	24813.3
1297.34	31957.4	1319.99	26370.4	1342.65	24816.2
1297.82	32025.8	1320.48	27709.1	1343.13	24861.4
1298.3	31996.7	1320.96	27125	1343.61	24820.7
1298.78	31907.4	1321.44	28327.1	1344.1	24746.3
1299.27	31848.8	1321.92	28310.2	1344.58	24900.4
1299.75	31789.4	1322.4	28367.7	1345.06	24897
1300.23	31712.6	1322.89	28194.3	1345.54	24828.6
1300.71	31648.9	1323.37	27629.2	1346.02	24822.3
1301.19	31550.5	1323.85	28294.9	1346.51	24853.8
1301.68	31466.7	1324.33	28387.4	1346.99	24763.3
1302.16	31413.3	1324.81	28354	1347.47	24736
1302.64	31378.5	1325.3	28309.5	1347.95	24686.7
1303.12	31297.6	1325.78	28239.5	1348.43	24552.8
1303.6	31201.9	1326.26	28179.9	1348.92	23906.5
1304.09	31119.2	1326.74	28210.9	1349.4	22220.3
1304.57	31028	1327.22	28154.9	1349.88	24206.9
1305.05	30919.4	1327.71	27998.6	1350.36	24302.9
1305.53	30622.4	1328.19	28054	1350.85	24283.7
1306.01	30699.7	1328.67	28034.8	1351.33	24182
1306.5	30636.3	1329.15	27920.1	1351.81	24089.4
1306.98	30549.7	1329.63	27572.4	1352.29	23911.5
1307.46	30516.5	1330.12	27257.5	1352.77	23946.9
1307.94	29530.7	1330.6	27636.2	1353.26	23842.6
1308.42	29170	1331.08	27524.4	1353.74	23734
1308.91	30104.9	1331.56	27370.9	1354.22	23402.5
1309.39	30100.9	1332.05	27231.8	1354.7	21073.1
1309.87	29971.4	1332.53	27020.1	1355.18	22072.2
1310.35	29865.1	1333.01	26946.6	1355.67	23081.1
1310.83	29759.8	1333.49	26754	1356.15	23095.6
1311.32	29767.2	1333.97	26559.8	1356.63	22954.2
1311.8	29651	1334.46	26360.4	1357.11	22760.6
1312.28	27644.8	1334.94	26246	1357.59	22463.1
1312.76	26895.2	1335.42	25985.7	1358.08	21066.6
1313.24	27946.5	1335.9	25846.1	1358.56	22340.7
1313.73	26766.5	1336.38	23631.6	1359.04	22186.3
1314.21	28691.4	1336.87	21159.2	1359.52	22129.9

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Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
1360	21972.6	1382.66	20042.7	1405.32	13386.6
1360.49	21291	1383.14	19898.1	1405.8	16706.6
1360.97	16821.2	1383.63	19825.5	1406.28	17232.5
1361.45	19340.3	1384.11	19777.2	1406.76	17400.3
1361.93	20664.2	1384.59	19668	1407.25	17411.5
1362.41	18045.1	1385.07	19491.1	1407.73	17496.9
1362.9	14919.2	1385.55	19260.1	1408.21	17424
1363.38	14260.6	1386.04	18115.8	1408.69	17336.4
1363.86	20410.7	1386.52	15041.3	1409.17	17475.1
1364.34	21159.1	1387	16077.8	1409.66	16699.9
1364.82	21320.3	1387.48	11236	1410.14	15901
1365.31	21316.7	1387.96	15545.9	1410.62	17165.2
1365.79	21322.6	1388.45	17932.3	1411.1	16667.9
1366.27	21311.5	1388.93	18433.6	1411.58	14957.8
1366.75	21277.4	1389.41	18464.1	1412.07	15310.8
1367.24	21211.9	1389.89	18307	1412.55	16827.3
1367.72	21048.7	1390.37	17987.3	1413.03	16746.7
1368.2	19677.2	1390.86	17367.8	1413.51	16618.4
1368.68	16145.3	1391.34	17769	1413.99	16451.2
1369.16	20496.1	1391.82	17882.2	1414.48	16218.3
1369.65	20650.2	1392.3	17703	1414.96	15914.4
1370.13	20693.4	1392.78	17522.9	1415.44	15906.2
1370.61	20789	1393.27	17113.6	1415.92	13905.1
1371.09	20566.3	1393.75	15725	1416.4	14075.3
1371.57	20628.4	1394.23	11307.7	1416.89	14099
1372.06	19917.7	1394.71	10442.3	1417.37	10074.5
1372.54	19722.5	1395.19	14474.5	1417.85	12814.1
1373.02	19483.6	1395.68	11954.2	1418.33	12851.4
1373.5	15528.8	1396.16	14002.3	1418.81	9217.18
1373.98	13955.8	1396.64	16285	1419.3	7103.32
1374.47	18127.4	1397.12	16244.5	1419.78	8701.45
1374.95	14834.3	1397.6	13248.7	1420.26	12669.8
1375.43	17096.5	1398.09	14652.8	1420.74	14131.2
1375.91	19616.2	1398.57	14214.3	1421.23	14594
1376.39	19947.8	1399.05	9955.18	1421.71	14819.5
1376.88	20011.4	1399.53	12132.1	1422.19	14848.3
1377.36	20018.4	1400.01	15807.7	1422.67	14688.9
1377.84	18403.8	1400.5	16548.1	1423.15	13615.6
1378.32	18899.4	1400.98	16829.5	1423.64	10153.6
1378.8	19888.1	1401.46	16967.8	1424.12	10510.5
1379.29	19359.5	1401.94	17014	1424.6	14611.4
1379.77	18532.1	1402.43	17039	1425.08	15411
1380.25	19880.4	1402.91	17032.2	1425.56	15587.2
1380.73	20175.5	1403.39	16799.1	1426.05	15612.7
1381.21	20193.3	1403.87	16794.7	1426.53	15646.5
1381.7	20005.5	1404.35	15678.1	1427.01	15713.8
1382.18	19726.9	1404.84	11710.1	1427.49	15683.1

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Type: 80 deg C BB

WN	INT
1427.97	15022.5
1428.46	14324.6
1428.94	15133
1429.42	13391.8
1429.9	9501.29
1430.38	12647.8
1430.87	14556.8
1431.35	14918.2
1431.83	14181.2
1432.31	14462.5
1432.79	14165.6
1433.28	12109.3
1433.76	14224.3
1434.24	14535.1
1434.72	14293.1
1435.2	13357.1
1435.69	10914.5
1436.17	9642.86
1436.65	6741.39
1437.13	8658.5
1437.62	12503.7
1438.1	14032.9
1438.58	14599.7
1439.06	14903.7
1439.54	15048.2
1440.03	15162.4
1440.51	15210.3
1440.99	15267.2
1441.47	15205.8
1441.95	15496.4
1442.44	15494.7
1442.92	15454.3
1443.4	15532.8
1443.88	15545
1444.36	15533.9
1444.85	15230
1445.33	14991.5
1445.81	15201.2
1446.29	14575.7
1446.77	14366.8
1447.26	13388
1447.74	9729.85
1448.22	9927.9
1448.7	13433.4
1449.18	14110.5
1449.67	14205.7
1450.15	14159.7

Filenam LMA0111  
Subfile: 1110

Type: OFF STACK

WN	INT	WN	INT	WN	INT
748.245	35275.6	770.904	40237.8	793.564	41799.7
748.727	35416	771.386	40218.1	794.046	41888
749.209	35461.7	771.868	40267.3	794.528	41602.6
749.691	35717.3	772.351	40325.6	795.01	41579.5
750.173	35859.1	772.833	40468.5	795.492	41667.7
750.655	35858.5	773.315	40527.6	795.974	41702.4
751.137	36190	773.797	40610.7	796.456	41565.1
751.62	36396.3	774.279	40887.1	796.939	41456.7
752.102	36592.1	774.761	40996.2	797.421	41511.2
752.584	36716.5	775.243	41339.4	797.903	41410.7
753.066	36879.7	775.725	41496.9	798.385	41398.1
753.548	36973.4	776.208	41380	798.867	41332.2
754.03	37198.2	776.69	41642.7	799.349	41183.1
754.512	37334.4	777.172	41774.3	799.831	40938.9
754.994	37486.1	777.654	41589.8	800.313	40742.4
755.476	37571.3	778.136	41499	800.795	40550.1
755.959	37797.2	778.618	41582.7	801.278	40480.1
756.441	37716.1	779.1	41962.8	801.76	40582.9
756.923	37831.9	779.582	41979	802.242	40608.9
757.405	38006.2	780.064	41733.2	802.724	40972.8
757.887	37816.7	780.547	41716.9	803.206	41183.9
758.369	37933.9	781.029	41636.2	803.688	41185.3
758.851	38367.4	781.511	41787.5	804.17	40787.6
759.333	38201.8	781.993	41904.7	804.652	40645.4
759.816	38289.1	782.475	41865.5	805.134	40436.5
760.298	38716.1	782.957	41972.1	805.617	40545.2
760.78	38636.6	783.439	42189.2	806.099	41173
761.262	38588.6	783.921	42390.7	806.581	40965.7
761.744	38944.9	784.403	42423.1	807.063	40752.3
762.226	38760	784.886	42363.2	807.545	41016.8
762.708	38772.2	785.368	42135.2	808.027	41704.7
763.19	39125.1	785.85	41920.7	808.509	41653.2
763.672	38997.5	786.332	41736.3	808.991	41173.3
764.155	38967.8	786.814	41771	809.474	41337
764.637	39234.9	787.296	41658.8	809.956	41204.4
765.119	39176	787.778	41740.2	810.438	41322.1
765.601	39129.5	788.26	41656.2	810.92	41669.6
766.083	39416.8	788.743	41538.9	811.402	41580.7
766.565	39523.1	789.225	41529.1	811.884	41724.1
767.047	39573.8	789.707	41507.9	812.366	41966.2
767.529	39789.4	790.189	41450.4	812.848	41985.3
768.011	39780.3	790.671	41435.2	813.33	42322
768.494	39811.5	791.153	41484.9	813.813	43156.6
768.976	40204.3	791.635	42013.3	814.295	43183.1
769.458	40098	792.117	41943.4	814.777	43184.9
769.94	40311.8	792.599	41669.8	815.259	42656
770.422	40351	793.082	41596.3	815.741	42641.5

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Type: OFF STACK

WN	INT
816.223	42553
816.705	42646.9
817.187	42697.6
817.669	42613.7
818.152	42677.2
818.634	42890.3
819.116	42852.7
819.598	42924.4
820.08	43003.6
820.562	43071.1
821.044	43142.8
821.526	43264
822.009	43453.4
822.491	43604.2
822.973	43647
823.455	43857.9
823.937	43994.2
824.419	44274.4
824.901	44980.5
825.383	45356.5
825.866	44857.7
826.348	45046.7
826.83	45486.2
827.312	46231.3
827.794	46678.2
828.276	46151
828.758	45924.8
829.24	45962.6
829.722	46074.1
830.205	46137.2
830.687	46426
831.169	46466.9
831.651	46606.3
832.133	46691.5
832.615	46947.5
833.097	47087.5
833.579	47189.5
834.062	47367.5
834.544	47491.6
835.026	47662.4
835.508	48722.3
835.99	47929.2
836.472	47888.3
836.954	48034.8
837.436	48149.3
837.918	48365.5
838.401	48463.7

WN	INT
838.883	48669.9
839.365	49124.3
839.847	50224.7
840.329	50093.9
840.811	49150.6
841.293	49184.5
841.775	49762.7
842.257	49408.4
842.74	49179.9
843.222	49194
843.704	49216.3
844.186	49297.5
844.668	49333.5
845.15	49436.8
845.632	49716.3
846.114	49574
846.597	49658.8
847.079	49718.9
847.561	49867.3
848.043	49918
848.525	50119.3
849.007	50568.6
849.489	51638.7
849.971	51259.9
850.453	50634.1
850.936	50630.2
851.418	50784.9
851.9	51294.7
852.382	51986.7
852.864	51983
853.346	51730.7
853.828	51116.2
854.31	51666.2
854.792	51853.9
855.275	50832
855.757	50373.2
856.239	50160.8
856.721	50021.5
857.203	50025.8
857.685	49950
858.167	49963
858.649	50892.1
859.132	49963.2
859.614	50505.4
860.096	49876
860.578	49772
861.06	49786.5

WN	INT
861.542	49830.1
862.024	49843.6
862.506	49922.2
862.989	49876.3
863.471	49928.6
863.953	50002.8
864.435	50218.8
864.917	51471.2
865.399	51831.5
865.881	50782.8
866.363	50245.7
866.845	50153.8
867.328	50220.6
867.81	50386
868.292	50296.5
868.774	50298.3
869.256	50319.8
869.738	50429.9
870.22	50588.6
870.702	51067.1
871.184	52472.2
871.667	51731.9
872.149	50799.2
872.631	50669.4
873.113	50588.4
873.595	50530.3
874.077	50582.4
874.559	50552.2
875.041	50600.7
875.524	50667.4
876.006	50970
876.488	50841
876.97	50852.3
877.452	50945.3
877.934	51299
878.416	52790.5
878.898	52193.7
879.38	51274
879.863	51172.7
880.345	51215.8
880.827	51693
881.309	52240.8
881.791	51396.2
882.273	51390.6
882.755	51700.1
883.237	52827
883.72	53295.5

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
884.202	52640.6	906.861	52626.5	929.521	50289.4
884.684	51751.3	907.343	51767.8	930.003	50437.5
885.166	51662.9	907.825	52104.8	930.485	50238.4
885.648	51718.3	908.307	52635.1	930.967	50823.2
886.13	51858.9	908.79	54087.6	931.449	50258.2
886.612	52297.8	909.272	53832.3	931.931	50302.6
887.094	53808.7	909.754	52376.3	932.413	50236.3
887.576	53350.5	910.236	52925.4	932.895	50535.3
888.059	52379.6	910.718	52240.7	933.378	49806.8
888.541	53449.3	911.2	51556.7	933.86	49724.3
889.023	52307.8	911.682	51449.7	934.342	49715.3
889.505	51855.1	912.164	51494	934.824	50349.6
889.987	52772.1	912.647	51358.6	935.306	49714.4
890.469	51939.9	913.129	51306.7	935.788	49495
890.951	51854.3	913.611	51487.5	936.27	49505
891.433	53008.5	914.093	52929.5	936.752	50280.4
891.915	51682.1	914.575	51392.6	937.234	49876.1
892.398	51593.4	915.057	51266.5	937.717	49393.5
892.88	51503.6	915.539	51155.3	938.199	49466.5
893.362	51471	916.021	51085.5	938.681	50352.8
893.844	51385.2	916.503	51179.8	939.163	49235.7
894.326	51391	916.986	50969.6	939.645	49292
894.808	51372.7	917.468	51040.9	940.127	49403.7
895.29	51354.9	917.95	51098.7	940.609	50517.1
895.772	51450.1	918.432	52753.8	941.091	51274.5
896.255	51468.6	918.914	51207.3	941.574	49340.9
896.737	51569.3	919.396	51052	942.056	49356.2
897.219	51289.8	919.878	51084.9	942.538	50160.7
897.701	52444.1	920.36	51053.1	943.02	49117.2
898.183	51395.9	920.842	51446.5	943.502	49175.8
898.665	51288.4	921.325	52693.5	943.984	49869.5
899.147	51248.6	921.807	52614.7	944.466	50191.5
899.629	51222.3	922.289	53596.5	944.948	51098.2
900.111	51205.9	922.771	51764.5	945.43	49189.6
900.594	51240.9	923.253	51326.2	945.913	50205.2
901.076	51252.2	923.735	51026.8	946.395	49271.1
901.558	51184.4	924.217	51121.4	946.877	49751.2
902.04	51218.4	924.699	52187.5	947.359	49435.7
902.522	51462	925.182	53122.9	947.841	51265.7
903.004	51343.2	925.664	51494	948.323	52365
903.486	51322.1	926.146	50734.9	948.805	50277.7
903.968	51419.5	926.628	50573.9	949.287	49890.2
904.45	51482.2	927.11	50974.1	949.769	49453.4
904.933	51497.9	927.592	50592.2	950.252	48845.3
905.415	52171.4	928.074	50439.8	950.734	48792.6
905.897	51780.2	928.556	50937.9	951.216	50126.6
906.379	53428.3	929.039	51851.1	951.698	48778.5



Filenam LMA0111  
Subfile: 1110

Type: OFF STACK

WN	INT
952.18	48596.5
952.662	49065.7
953.144	50216.9
953.626	49983.6
954.109	49290.2
954.591	49528.6
955.073	49810.3
955.555	50439.9
956.037	49022.6
956.519	48182.4
957.001	47822.9
957.483	47798
957.965	48247.4
958.448	47470.5
958.93	48004.4
959.412	49074
959.894	48703.6
960.376	47628.5
960.858	47519.5
961.34	47309.3
961.822	47781.2
962.305	47074.6
962.787	46892.3
963.269	47571.2
963.751	46911.5
964.233	46885.8
964.715	47793.6
965.197	47071.3
965.679	47647.2
966.162	48718.7
966.644	47889.8
967.126	48311.3
967.608	48171.4
968.09	47136
968.572	46670.2
969.054	47790.9
969.536	46734.7
970.018	46740.1
970.501	48493.7
970.983	47130.1
971.465	49450.9
971.947	48615.3
972.429	46846.5
972.911	46680.9
973.393	49280.1
973.875	48563.1
974.357	47225

WN	INT
974.84	47282.4
975.322	46489.4
975.804	48771.2
976.286	47759.8
976.768	46193.1
977.25	48121.1
977.732	46870.5
978.214	45850.1
978.697	46294.7
979.179	45186.7
979.661	46069.2
980.143	44803.7
980.625	44821.6
981.107	45414.3
981.589	45368.1
982.071	45604.5
982.553	44197.8
983.036	44324.6
983.518	44397.5
984	45030.8
984.482	44797
984.964	43699
985.446	44094.8
985.928	43476.3
986.41	43603.2
986.892	43387.6
987.375	43342.8
987.857	43319.3
988.339	43077.4
988.821	43444.3
989.303	42898.2
989.785	43003.7
990.267	43511.8
990.749	42891.4
991.232	42546.7
991.714	42781.2
992.196	42524.7
992.678	42825.4
993.16	42422.8
993.642	42190.7
994.124	42310.2
994.606	42606.8
995.088	42186.4
995.571	42228.8
996.053	42005.7
996.535	41940.8
997.017	42220.8

WN	INT
997.499	42010.5
997.981	41961.8
998.463	42336.7
998.945	43923.9
999.427	41900.5
999.91	41974.9
1000.39	43691.8
1000.87	41893.3
1001.35	41549.8
1001.83	41347.3
1002.32	41548.6
1002.8	40986.3
1003.28	41389.1
1003.76	42669.8
1004.24	41406.3
1004.73	41426.5
1005.21	40504.2
1005.69	40767.8
1006.17	40675.9
1006.65	40392.9
1007.14	41169.6
1007.62	40439.2
1008.1	40132.1
1008.58	40091.5
1009.07	39942
1009.55	40444.3
1010.03	42027.7
1010.51	40534.9
1010.99	41244.1
1011.48	39739.6
1011.96	39820.8
1012.44	39280
1012.92	39070.8
1013.4	39223.9
1013.89	39329.7
1014.37	41064.6
1014.85	40072.9
1015.33	38913.5
1015.82	38549.5
1016.3	38332.7
1016.78	38424.4
1017.26	38589.7
1017.74	39985.3
1018.23	38629.1
1018.71	38061.2
1019.19	37812.6
1019.67	37894.2

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1020.15	37416.4	1042.81	34023.6	1065.47	32030
1020.64	37161.3	1043.29	34073.7	1065.95	33253.9
1021.12	37291.7	1043.78	32722.2	1066.43	33176.1
1021.6	36721.9	1044.26	32778.5	1066.91	31657.8
1022.08	37323	1044.74	33330.6	1067.4	30988.1
1022.56	36829	1045.22	33947.8	1067.88	30286.6
1023.05	37058.5	1045.7	33012.3	1068.36	29792.2
1023.53	36727.1	1046.19	33778.3	1068.84	30198.9
1024.01	36680.6	1046.67	34311.9	1069.32	29742.6
1024.49	36724.7	1047.15	33791.3	1069.81	29110.3
1024.98	36822.5	1047.63	33972.6	1070.29	29739.7
1025.46	36673.6	1048.11	34151.6	1070.77	29402.3
1025.94	36341.3	1048.6	34430.6	1071.25	28770.9
1026.42	36338.9	1049.08	34916.5	1071.73	29683.9
1026.9	36533.3	1049.56	35033.9	1072.22	29559.2
1027.39	36602.3	1050.04	34269.3	1072.7	30819.7
1027.87	36427.8	1050.52	34999.4	1073.18	29917.1
1028.35	38050.6	1051.01	35034.2	1073.66	29236.7
1028.83	37471.1	1051.49	35161.6	1074.15	30838.1
1029.31	37327.6	1051.97	34609.4	1074.63	31143.3
1029.8	37681.9	1052.45	34537.6	1075.11	29104.6
1030.28	36603.8	1052.93	34352	1075.59	28515
1030.76	37018.2	1053.42	34397.7	1076.07	30115.9
1031.24	36311.7	1053.9	34789.6	1076.56	27891.4
1031.72	36130.2	1054.38	34100.3	1077.04	28260.6
1032.21	36666.3	1054.86	34373.8	1077.52	28491.1
1032.69	36639.5	1055.35	34732.7	1078	27244.6
1033.17	36226.3	1055.83	34613.1	1078.48	28292.2
1033.65	35954.5	1056.31	34230.5	1078.97	27311.2
1034.13	35713.6	1056.79	33357.1	1079.45	27004.4
1034.62	35562.8	1057.27	34305.8	1079.93	28273.6
1035.1	35562.5	1057.76	33545.8	1080.41	26783.5
1035.58	35737.8	1058.24	33504.9	1080.89	27312.1
1036.06	35116.2	1058.72	34101.3	1081.38	28106.6
1036.54	35172.3	1059.2	33479.2	1081.86	26542.8
1037.03	35040.9	1059.68	33414.3	1082.34	27563.4
1037.51	35591.7	1060.17	34363	1082.82	26071.1
1037.99	35132.9	1060.65	33261.6	1083.3	26738.3
1038.47	35127.1	1061.13	32787	1083.79	26468.7
1038.96	34844.5	1061.61	32663.8	1084.27	26217.8
1039.44	36276.5	1062.09	32503.8	1084.75	27212.1
1039.92	35044	1062.58	33723.2	1085.23	27093.4
1040.4	34665.8	1063.06	32111.8	1085.71	27507.4
1040.88	34597.7	1063.54	32058.2	1086.2	25801.9
1041.37	35052.6	1064.02	31288.8	1086.68	25926.1
1041.85	33924.7	1064.5	31668.2	1087.16	25861.4
1042.33	33864.6	1064.99	31409.6	1087.64	25798.8

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1088.12	26434.7	1110.78	24829.4	1133.44	24261.7
1088.61	25396.5	1111.26	26174.9	1133.92	24796.5
1089.09	25812.9	1111.75	26245.2	1134.4	25341.8
1089.57	25281.3	1112.23	24841	1134.88	26108.7
1090.05	25703.6	1112.71	23873	1135.37	26638.4
1090.54	25900.6	1113.19	23464.6	1135.85	26703.6
1091.02	27624.9	1113.67	23257.2	1136.33	26601.2
1091.5	27420.6	1114.16	23223.9	1136.81	26418
1091.98	25776.2	1114.64	23638.1	1137.29	26695.1
1092.46	24918.4	1115.12	23222.7	1137.78	26488.1
1092.95	24811.1	1115.6	23117.8	1138.26	25366.9
1093.43	24506.1	1116.08	23058	1138.74	24467.9
1093.91	24510	1116.57	23198	1139.22	24069.1
1094.39	24299.9	1117.05	23199.2	1139.7	23814.6
1094.87	24293.7	1117.53	24738.7	1140.19	23932.1
1095.36	24115	1118.01	23496.6	1140.67	23515.5
1095.84	24121	1118.49	23420.2	1141.15	23447.9
1096.32	24104.1	1118.98	23254.8	1141.63	24796.8
1096.8	24105.6	1119.46	23275.8	1142.12	23197.5
1097.28	24040.6	1119.94	23647.1	1142.6	22820.5
1097.77	24078.4	1120.42	24890	1143.08	22940
1098.25	24133.8	1120.9	25940.4	1143.56	23117.6
1098.73	24504	1121.39	25929.5	1144.04	22820.4
1099.21	25549.8	1121.87	24939.8	1144.53	22853.7
1099.69	26940.6	1122.35	23921.8	1145.01	22845.3
1100.18	25688.9	1122.83	23231.2	1145.49	22982.8
1100.66	25056.6	1123.31	22973.1	1145.97	23107.9
1101.14	26385.7	1123.8	23612.2	1146.45	22920.8
1101.62	26842.9	1124.28	22718.7	1146.94	23511.1
1102.1	25205.9	1124.76	22540.8	1147.42	23235.7
1102.59	24721.4	1125.24	22430.4	1147.9	23857.7
1103.07	24371	1125.73	22601.4	1148.38	24067.3
1103.55	24390.4	1126.21	22474.7	1148.86	25180.3
1104.03	24079.1	1126.69	22284.3	1149.35	26092.5
1104.51	24146.9	1127.17	22417.5	1149.83	25855.2
1105	24506.5	1127.65	22285.1	1150.31	24824
1105.48	24475.8	1128.14	22294.8	1150.79	24657.4
1105.96	25248.7	1128.62	22376.2	1151.27	25601.4
1106.44	26578.8	1129.1	22377.4	1151.76	25861.8
1106.93	26688.6	1129.58	22664.4	1152.24	25881.7
1107.41	25550.3	1130.06	23126.8	1152.72	25742
1107.89	24500.2	1130.55	22773.8	1153.2	24885.4
1108.37	24451.2	1131.03	22758.7	1153.68	23535.1
1108.85	23891.3	1131.51	23007.4	1154.17	23473.2
1109.34	23750.9	1131.99	23528.6	1154.65	23909
1109.82	23797.7	1132.47	23399.1	1155.13	23270.2
1110.3	24423.4	1132.96	23956.3	1155.61	22703.8

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1156.09	22420.2	1178.75	23246	1201.41	21068.4
1156.58	22588.9	1179.23	22282.7	1201.89	20563.5
1157.06	22196.5	1179.72	21860.8	1202.37	20376
1157.54	22411.2	1180.2	22300.9	1202.85	20280.9
1158.02	22459.4	1180.68	23139.3	1203.34	20307.9
1158.5	22357.7	1181.16	22609.4	1203.82	20208.3
1158.99	22586.3	1181.64	21942.5	1204.3	19902.9
1159.47	22075.2	1182.13	21723	1204.78	20241.9
1159.95	22568.6	1182.61	21842.6	1205.26	20600.6
1160.43	22283.7	1183.09	21689.9	1205.75	20859.4
1160.92	22668.3	1183.57	22092.9	1206.23	21745
1161.4	22380.4	1184.05	22928.3	1206.71	20658.1
1161.88	22628.3	1184.54	22417	1207.19	20930.4
1162.36	22592.9	1185.02	22563.1	1207.67	20503.9
1162.84	22702.5	1185.5	23206.3	1208.16	20545.3
1163.33	22668.9	1185.98	23408	1208.64	21358.2
1163.81	23570.4	1186.46	23584.4	1209.12	21460.1
1164.29	23684.8	1186.95	23585.7	1209.6	21429.6
1164.77	24581.3	1187.43	23595.7	1210.08	21704.1
1165.25	24860.5	1187.91	23460.2	1210.57	21942.6
1165.74	24838.9	1188.39	23002.6	1211.05	22091.2
1166.22	24444.4	1188.87	22549.2	1211.53	22093.5
1166.7	23489.8	1189.36	22032.1	1212.01	22161.9
1167.18	23422.8	1189.84	21890	1212.5	22098.7
1167.66	22498.4	1190.32	22256.1	1212.98	22035.3
1168.15	22404.8	1190.8	22018.8	1213.46	21898.5
1168.63	22314.1	1191.28	22912.2	1213.94	21588.4
1169.11	22965.8	1191.77	21788.9	1214.42	21366.3
1169.59	22726.2	1192.25	21451.1	1214.91	21689.8
1170.07	23479.2	1192.73	21687.7	1215.39	21592.4
1170.56	22797.4	1193.21	21503.7	1215.87	21201.7
1171.04	23263.6	1193.7	21915.4	1216.35	21257.5
1171.52	23613.9	1194.18	20916.6	1216.83	20962.9
1172	23383.1	1194.66	20809.4	1217.32	21180.6
1172.48	23804.5	1195.14	21453.4	1217.8	21563.7
1172.97	24228	1195.62	21456.1	1218.28	21682.5
1173.45	24579.4	1196.11	21907	1218.76	21616.3
1173.93	24669.3	1196.59	21704.6	1219.24	21452.4
1174.41	24657.6	1197.07	22090.2	1219.73	21206.5
1174.89	24644.8	1197.55	22560.1	1220.21	21288.2
1175.38	24469.7	1198.03	22668.5	1220.69	21247.2
1175.86	24145.4	1198.52	22607.1	1221.17	21270.1
1176.34	23945.2	1199	22410.3	1221.65	21052.6
1176.82	23621.4	1199.48	21861.6	1222.14	20994.6
1177.31	22984.9	1199.96	21289.6	1222.62	21212.2
1177.79	22546.9	1200.44	20849.2	1223.1	20981.8
1178.27	22735.7	1200.93	21018.8	1223.58	21049.3

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1224.06	21157.7	1246.72	18895	1269.38	16893.3
1224.55	21175.1	1247.2	18509.1	1269.86	16843.9
1225.03	21058.4	1247.69	18753.8	1270.34	16972.4
1225.51	21016.7	1248.17	18688.1	1270.82	16996.2
1225.99	20933.6	1248.65	18650.2	1271.31	16989.4
1226.47	20755.2	1249.13	18555.3	1271.79	16784
1226.96	20638.6	1249.61	18449.5	1272.27	17038.5
1227.44	20122.5	1250.1	18226.6	1272.75	16962.4
1227.92	19614.6	1250.58	18095.7	1273.23	16971.4
1228.4	19599.2	1251.06	18236	1273.72	16924.8
1228.89	19974	1251.54	18226.9	1274.2	16892.4
1229.37	20179.7	1252.02	18054.5	1274.68	16869.2
1229.85	19705.4	1252.51	18077	1275.16	16824.7
1230.33	19633.4	1252.99	17808.9	1275.64	16809.9
1230.81	18701.4	1253.47	17877.3	1276.13	16798.4
1231.3	18529.1	1253.95	17768.7	1276.61	16781.9
1231.78	18478.6	1254.43	17631.3	1277.09	16732.3
1232.26	18492.9	1254.92	17503	1277.57	16699.2
1232.74	19068.7	1255.4	17243.5	1278.05	16662.3
1233.22	19115.5	1255.88	17066.8	1278.54	16604.1
1233.71	18686.2	1256.36	16974.7	1279.02	16590.9
1234.19	18293.6	1256.84	16919.6	1279.5	16589.1
1234.67	18300.7	1257.33	16760	1279.98	16598.2
1235.15	18524.8	1257.81	16593.9	1280.47	16585.8
1235.63	18671.2	1258.29	16486.4	1280.95	16550.2
1236.12	19595.9	1258.77	16366.2	1281.43	16541.9
1236.6	19541.5	1259.25	16229.7	1281.91	16476
1237.08	19695.4	1259.74	16130.8	1282.39	16458.8
1237.56	19427	1260.22	15919.5	1282.88	16419.4
1238.04	19240.7	1260.7	15965.7	1283.36	16385.2
1238.53	19192.9	1261.18	15936.6	1283.84	16401.6
1239.01	19644.8	1261.66	15895	1284.32	16346
1239.49	19656.3	1262.15	15887.6	1284.8	16297.8
1239.97	19578	1262.63	15842.4	1285.29	16259.6
1240.45	19383.7	1263.11	15901.1	1285.77	16260.6
1240.94	19458.7	1263.59	15938.8	1286.25	16216.8
1241.42	19218.7	1264.08	15999.1	1286.73	16169.1
1241.9	19372.4	1264.56	16088.1	1287.21	16090.6
1242.38	19372	1265.04	16184.8	1287.7	16071
1242.86	19462.4	1265.52	16288.9	1288.18	16034.7
1243.35	19401.3	1266	16379.6	1288.66	16070.1
1243.83	19390.3	1266.49	16506.1	1289.14	16038.5
1244.31	19313	1266.97	16562.6	1289.62	15977
1244.79	19283.3	1267.45	16573.3	1290.11	15934.1
1245.28	19172.1	1267.93	16706.6	1290.59	15856.9
1245.76	19073.6	1268.41	16778.7	1291.07	15875.6
1246.24	18926.4	1268.9	16856.6	1291.55	15841.2

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1292.03	15779.7	1314.69	13942	1337.35	12419.1
1292.52	15781	1315.17	14145.8	1337.83	12314.5
1293	15728.4	1315.66	14101	1338.31	11927.3
1293.48	15696.6	1316.14	14015.9	1338.79	11662.3
1293.96	15654.7	1316.62	13914.4	1339.28	11631.6
1294.44	15607.6	1317.1	13633.6	1339.76	11911
1294.93	15579.9	1317.58	13916.3	1340.24	11272.5
1295.41	15560.4	1318.07	13879.2	1340.72	11767.1
1295.89	15547.7	1318.55	13722.5	1341.2	12219.5
1296.37	15483.3	1319.03	13244.6	1341.69	12209.1
1296.85	15488.2	1319.51	13794.4	1342.17	12160.7
1297.34	15458.7	1319.99	13747.8	1342.65	12132
1297.82	15400.5	1320.48	13809.2	1343.13	12102.9
1298.3	15332.8	1320.96	13705.2	1343.61	12072.7
1298.78	15257	1321.44	13764.2	1344.1	12029.4
1299.27	15250.9	1321.92	13745.5	1344.58	11966.2
1299.75	15238.3	1322.4	13712.3	1345.06	11952.8
1300.23	15205.8	1322.89	13667.5	1345.54	11936.5
1300.71	15127	1323.37	13635.3	1346.02	11893.5
1301.19	15096	1323.85	13631.8	1346.51	11881.4
1301.68	15085.3	1324.33	13608.8	1346.99	11838
1302.16	15064.6	1324.81	13549.6	1347.47	11782.3
1302.64	15033.9	1325.3	13544.9	1347.95	11760.3
1303.12	15013.7	1325.78	13483.2	1348.43	11714.3
1303.6	14985.8	1326.26	13482.3	1348.92	11642.6
1304.09	14922.2	1326.74	13444.7	1349.4	11515.1
1304.57	14883.7	1327.22	13413.2	1349.88	11660.1
1305.05	14840	1327.71	13413.8	1350.36	11601.7
1305.53	14840.7	1328.19	13354	1350.85	11548.5
1306.01	14815.8	1328.67	13298.4	1351.33	11505.2
1306.5	14770.1	1329.15	13290.1	1351.81	11475.3
1306.98	14719.1	1329.63	13238.5	1352.29	11449.4
1307.46	14655.8	1330.12	13206.6	1352.77	11396.6
1307.94	14599	1330.6	13171.1	1353.26	11343.5
1308.42	14568.8	1331.08	13125.4	1353.74	11309.3
1308.91	14562.2	1331.56	13109.2	1354.22	11254.4
1309.39	14519	1332.05	13083.4	1354.7	11027.6
1309.87	14506.4	1332.53	13034.9	1355.18	11165
1310.35	14439.7	1333.01	12935.6	1355.67	11172.1
1310.83	14394.8	1333.49	12904.5	1356.15	11133.4
1311.32	14349.3	1333.97	12841.6	1356.63	11049.6
1311.8	14329.9	1334.46	12794.4	1357.11	10986.6
1312.28	14126.2	1334.94	12754.6	1357.59	10902.6
1312.76	14070	1335.42	12704.8	1358.08	10775.1
1313.24	14136.7	1335.9	12623.3	1358.56	10864.7
1313.73	14054.4	1336.38	12300	1359.04	10808.7
1314.21	14134.7	1336.87	11940.9	1359.52	10742.9

Filenam LMA0111  
Subfile: 1110

Type: OFF STACK

WN	INT
1360	10694.5
1360.49	10534.2
1360.97	9558.05
1361.45	10407
1361.93	10470.8
1362.41	10102.1
1362.9	9399.39
1363.38	8866.94
1363.86	10495.1
1364.34	10511.8
1364.82	10489.8
1365.31	10459
1365.79	10434.3
1366.27	10426.9
1366.75	10374.9
1367.24	10338.1
1367.72	10300.2
1368.2	10136.4
1368.68	9567.57
1369.16	10291.9
1369.65	10250.3
1370.13	10230.6
1370.61	10174.8
1371.09	10106.3
1371.57	10083.6
1372.06	10015
1372.54	9956.25
1373.02	9893.52
1373.5	9067.8
1373.98	8623.01
1374.47	9690.49
1374.95	9135.35
1375.43	9658.51
1375.91	9855.9
1376.39	9863.86
1376.88	9838.69
1377.36	9809.28
1377.84	9579.94
1378.32	9702.3
1378.8	9734.46
1379.29	9696.83
1379.77	9635.18
1380.25	9707.48
1380.73	9715.11
1381.21	9660.29
1381.7	9624.58
1382.18	9600.89

WN	INT
1382.66	9586.52
1383.14	9559.65
1383.63	9536.07
1384.11	9483.68
1384.59	9444.83
1385.07	9388.64
1385.55	9347.48
1386.04	9165.72
1386.52	8723.8
1387	8751.29
1387.48	7067.82
1387.96	9027.58
1388.45	9225.81
1388.93	9197.31
1389.41	9129.15
1389.89	9048.62
1390.37	8979.14
1390.86	8956.33
1391.34	8928.87
1391.82	8917.6
1392.3	8874.49
1392.78	8771.95
1393.27	8709.54
1393.75	8467.25
1394.23	7218.01
1394.71	6896.22
1395.19	8357.6
1395.68	7698.31
1396.16	8330.3
1396.64	8521.4
1397.12	8441.72
1397.6	7946.97
1398.09	8271.25
1398.57	8096.26
1399.05	6808.35
1399.53	7686.72
1400.01	8427.52
1400.5	8480.11
1400.98	8456.17
1401.46	8452.32
1401.94	8407.39
1402.43	8406.28
1402.91	8389.91
1403.39	8371.58
1403.87	8331.71
1404.35	8163.84
1404.84	7259.69

WN	INT
1405.32	7873.59
1405.8	8367.63
1406.28	8399.64
1406.76	8394.52
1407.25	8355.11
1407.73	8346.97
1408.21	8345.71
1408.69	8304.71
1409.17	8302.83
1409.66	8261.1
1410.14	8179.04
1410.62	8245.27
1411.1	8143.78
1411.58	8016.4
1412.07	8050.35
1412.55	8174.18
1413.03	8059.29
1413.51	8009.52
1413.99	7935.42
1414.48	7907.23
1414.96	7843.25
1415.44	7798.02
1415.92	7540.39
1416.4	7587.94
1416.89	7473.22
1417.37	6600.65
1417.85	7437.02
1418.33	7284.98
1418.81	6137.43
1419.3	4794.03
1419.78	5976.27
1420.26	7508.02
1420.74	7646.25
1421.23	7597.33
1421.71	7613.22
1422.19	7610.99
1422.67	7586.24
1423.15	7423.95
1423.64	6794.41
1424.12	6865.5
1424.6	7756.45
1425.08	7773.68
1425.56	7739.57
1426.05	7739.16
1426.53	7754.61
1427.01	7721.36
1427.49	7686.7

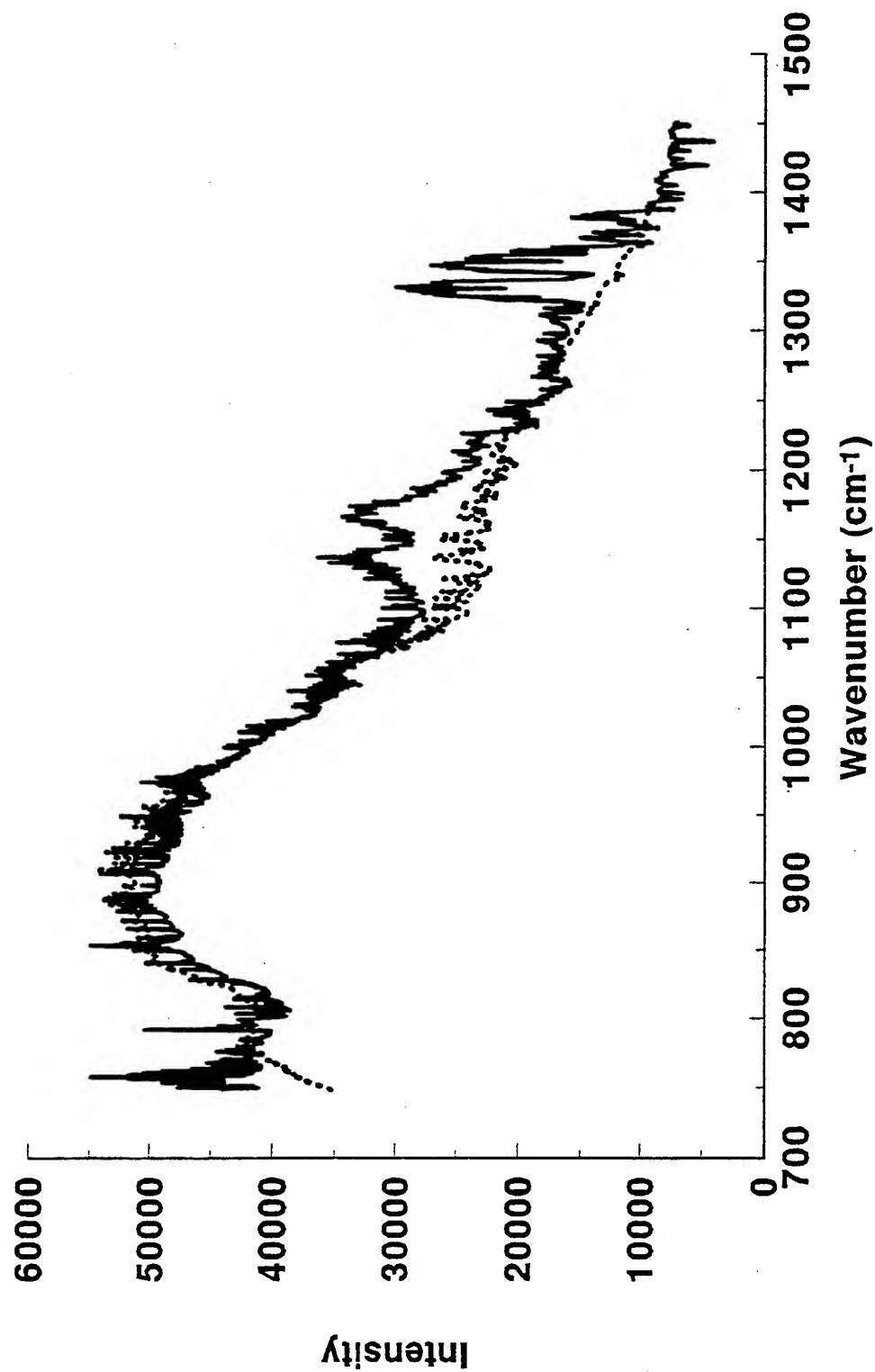
Filenam LMA0111  
Subfile: 1110

Type: OFF STACK

WN	INT
1427.97	7642.52
1428.46	7581.78
1428.94	7587.67
1429.42	7257.15
1429.9	6202.53
1430.38	7456.26
1430.87	7561.81
1431.35	7523.98
1431.83	7448.63
1432.31	7448.18
1432.79	7362.8
1433.28	7098.53
1433.76	7411.97
1434.24	7368.89
1434.72	7296.18
1435.2	7204.54
1435.69	6794.93
1436.17	6140.43
1436.65	4190.14
1437.13	5634
1437.62	7257.68
1438.1	7425.47
1438.58	7415.66
1439.06	7401.42
1439.54	7424.84
1440.03	7417.69
1440.51	7427.61
1440.99	7440.01
1441.47	7409.23
1441.95	7430.13
1442.44	7419.95
1442.92	7403.58
1443.4	7413.37
1443.88	7399.37
1444.36	7367.08
1444.85	7354.89
1445.33	7321.59
1445.81	7315.65
1446.29	7294.91
1446.77	7228
1447.26	7051.92
1447.74	6126.46
1448.22	6259.65
1448.7	7147.51
1449.18	7165.43
1449.67	7134.29
1450.15	7092.2



**ON and OFF STACK Response**  
**LMA0112 and LMA0111**



Filenam LMA0112  
Subfile: 0201

Type: ON STACK

WN	INT	WN	INT	WN	INT
748.245	43983.9	770.904	42438.8	793.564	42731.6
748.727	44079.6	771.386	41602.8	794.046	44321.9
749.209	41129.9	771.868	41519.3	794.528	41500.3
749.691	47670.2	772.351	41636.2	795.01	41201.2
750.173	45575.6	772.833	42113.4	795.492	42397
750.655	41412	773.315	40931.2	795.974	42285.3
751.137	47347.7	773.797	41511.4	796.456	41731.8
751.62	47184.7	774.279	43263.9	796.939	41498.5
752.102	43910.3	774.761	40894.4	797.421	41940.1
752.584	46518.5	775.243	42643	797.903	41507.2
753.066	48982.9	775.725	44454.1	798.385	42116.6
753.548	43763.9	776.208	41475.8	798.867	42624.5
754.03	44458.3	776.69	43054.8	799.349	41435.4
754.512	47871.1	777.172	43632.7	799.831	40115
754.994	43820.7	777.654	41366.1	800.313	39598.4
755.476	43841.5	778.136	41469.8	800.795	39078.9
755.959	51752.9	778.618	42112.9	801.278	38931.6
756.441	45032.3	779.1	42677.1	801.76	39686.1
756.923	47432.7	779.582	42732.3	802.242	39035.3
757.405	54860.4	780.064	41340.8	802.724	40162.8
757.887	42284.1	780.547	41258.3	803.206	42845.9
758.369	42079	781.029	41176.6	803.688	41910.7
758.851	51686.9	781.511	40811.6	804.17	39328
759.333	42026.8	781.993	40833.9	804.652	39731
759.816	41595.9	782.475	40801.5	805.134	38619
760.298	50511.7	782.957	40717	805.617	38616.3
760.78	42090.8	783.439	41175.2	806.099	41305.2
761.262	41428.8	783.921	42343.3	806.581	39996
761.744	49014.3	784.403	42469.1	807.063	38924.3
762.226	41631.2	784.886	42459.5	807.545	39202.3
762.708	40946.2	785.368	41570.5	808.027	43697.6
763.19	46518.4	785.85	40717.8	808.509	40492.1
763.672	42226.3	786.332	40607.6	808.991	39207.2
764.155	40838.5	786.814	40769.5	809.474	40369.8
764.637	44846.6	787.296	40251.3	809.956	39197.2
765.119	43378.7	787.778	40442.8	810.438	39255.2
765.601	40803.3	788.26	40425.7	810.92	40482.1
766.083	44111.9	788.743	40135.1	811.402	39460.6
766.565	44349	789.225	40139.8	811.884	39522.7
767.047	41595	789.707	40249.9	812.366	40189.6
767.529	45267.5	790.189	40144.6	812.848	39870.2
768.011	44441.8	790.671	40094.3	813.33	40094.9
768.494	41164.6	791.153	41396.8	813.813	42601.6
768.976	43965.7	791.635	50349.2	814.295	42624
769.458	44110.3	792.117	47138.1	814.777	42525
769.94	43047.9	792.599	43865	815.259	40602.9
770.422	43947.2	793.082	42377	815.741	41102.5

Filenam LMA0112  
Subfile: 0201

Type: ON STACK

WN	INT
816.223	40219.4
816.705	40510
817.187	41179.5
817.669	40187.5
818.152	40258.3
818.634	40809.4
819.116	40291.8
819.598	40331.4
820.08	40531.8
820.562	40646.8
821.044	40516.5
821.526	40599.3
822.009	41254.1
822.491	40991.8
822.973	41123.7
823.455	41745.4
823.937	41320.3
824.419	41570.5
824.901	42788.3
825.383	43224
825.866	42164.4
826.348	42458.3
826.83	43147.4
827.312	44643.7
827.794	46605.9
828.276	45066.7
828.758	43738.2
829.24	43583.7
829.722	43932.1
830.205	43633.7
830.687	43960.4
831.169	44080.6
831.651	43983.1
832.133	44084.8
832.615	44339.9
833.097	44484.7
833.579	44497.8
834.062	44718.4
834.544	45003
835.026	44950.6
835.508	47330.2
835.99	45217.3
836.472	45068.9
836.954	45248
837.436	45358
837.918	45516.1
838.401	45690.3

WN	INT
838.883	45864.4
839.365	46435.9
839.847	49822.7
840.329	48961.9
840.811	46310.8
841.293	46613.1
841.775	47245.1
842.257	46620.1
842.74	46382.4
843.222	46394.3
843.704	46450.2
844.186	46554.5
844.668	46609.2
845.15	46666.5
845.632	47105.6
846.114	46964.4
846.597	46968.5
847.079	47043.2
847.561	47245.7
848.043	47403.7
848.525	47523.5
849.007	48184
849.489	50969.4
849.971	49335
850.453	48269.5
850.936	48530
851.418	48651.5
851.9	49437.9
852.382	52534.5
852.864	54863.7
853.346	51211.8
853.828	49111.8
854.31	50600
854.792	52283.9
855.275	48889.6
855.757	48380
856.239	48011.3
856.721	47875.3
857.203	47776.7
857.685	47676.6
858.167	47579.4
858.649	50887.2
859.132	47763.3
859.614	48752.1
860.096	47586
860.578	47396.6
861.06	47440.4

WN	INT
861.542	47322.8
862.024	47430.3
862.506	47536.9
862.989	47554.3
863.471	47665.9
863.953	47860.2
864.435	48154.7
864.917	50250
865.399	51403.3
865.881	48969
866.363	48143.7
866.845	48038.8
867.328	48070.1
867.81	48145.6
868.292	48199.4
868.774	48219.1
869.256	48264.3
869.738	48370.6
870.22	48416.7
870.702	48896.7
871.184	51768.8
871.667	49702.2
872.149	48633.4
872.631	48619.1
873.113	48567.4
873.595	48572.9
874.077	48563.6
874.559	48630.9
875.041	48658.8
875.524	48795.6
876.006	48998.6
876.488	48912
876.97	49015.4
877.452	49148.8
877.934	49573.7
878.416	52142.3
878.898	50660.4
879.38	49575.5
879.863	49552.1
880.345	49681.2
880.827	50033.2
881.309	50706.8
881.791	49840.5
882.273	49826.9
882.755	50126.1
883.237	52452.3
883.72	52463.5

Filenam LMA0112  
Subfile: 0201

Type: ON STACK

WN	INT	WN	INT	WN	INT
884.202	51124.4	906.861	51248.1	929.521	47551.7
884.684	50278.4	907.343	49595.8	930.003	47615.7
885.166	50195.6	907.825	50159.5	930.485	47622.7
885.648	50177.5	908.307	50200.6	930.967	49147.3
886.13	50176.6	908.79	52977.7	931.449	47562.6
886.612	50567	909.272	52452.9	931.931	47690.3
887.094	53111	909.754	50249.2	932.413	47894.8
887.576	51847.1	910.236	51381.3	932.895	48909.2
888.059	50550.8	910.718	50629.8	933.378	47649.8
888.541	52675.3	911.2	49368.3	933.86	47618.8
889.023	50437.3	911.682	49094.1	934.342	47414.5
889.505	49920.8	912.164	49359	934.824	49208
889.987	51183.3	912.647	48840	935.306	47749.2
890.469	49972.4	913.129	48956	935.788	47340.1
890.951	49893.8	913.611	48813.3	936.27	47629.4
891.433	51539.6	914.093	51404.1	936.752	49518.5
891.915	49724.3	914.575	49297	937.234	47835.7
892.398	49603.7	915.057	48906.2	937.717	47443.4
892.88	49538	915.539	48738.6	938.199	47725.8
893.362	49446	916.021	48552.9	938.681	49852.8
893.844	49326	916.503	48947.9	939.163	47310.7
894.326	49358.4	916.986	48459	939.645	47446.6
894.808	49380.4	917.468	48643.3	940.127	47431.6
895.29	49341.3	917.95	48466.4	940.609	50516
895.772	49277.1	918.432	50764.8	941.091	49259.9
896.255	49430.3	918.914	49089.8	941.574	47390.1
896.737	49577.7	919.396	48448.8	942.056	47350
897.219	49389.4	919.878	48586.7	942.538	50189.9
897.701	50592.4	920.36	48514.4	943.02	47523.1
898.183	49223	920.842	49439.9	943.502	47384.3
898.665	49380.6	921.325	50443.8	943.984	48152.4
899.147	49315.4	921.807	50040	944.466	49532.2
899.629	49131.2	922.289	52915.1	944.948	49651.7
900.111	49137.8	922.771	49328.9	945.43	47630.5
900.594	49352.3	923.253	49044.7	945.913	49821.4
901.076	49432.8	923.735	48340.9	946.395	47492.3
901.558	49110.5	924.217	48388.1	946.877	47785.1
902.04	49208.1	924.699	49401.5	947.359	47554.6
902.522	49419.7	925.182	51647.9	947.841	51430.8
903.004	49450.1	925.664	48778.3	948.323	52262.6
903.486	49236.9	926.146	48145.4	948.805	48001
903.968	49259.6	926.628	47874.6	949.287	48296.2
904.45	49242.4	927.11	49462.2	949.769	48526.3
904.933	49414.3	927.592	47857.5	950.252	47324.8
905.415	49824.9	928.074	47637.7	950.734	47153.2
905.897	49512.2	928.556	48087.6	951.216	49734.9
906.379	54033.7	929.039	50595.1	951.698	47147.8

Filenam LMA0112  
Subfile: 0201

Type: ON STACK

WN	INT
952.18	46659.2
952.662	47411.5
953.144	49201.5
953.626	48547.3
954.109	47437.1
954.591	48899.9
955.073	47706.2
955.555	48213.1
956.037	47432.2
956.519	46596
957.001	46057.4
957.483	45953.8
957.965	46832.5
958.448	45616.9
958.93	45985.8
959.412	48018.3
959.894	46555.8
960.376	45687.2
960.858	45849.1
961.34	45425.6
961.822	45804.5
962.305	45148.9
962.787	45145.1
963.269	45961.1
963.751	45137.8
964.233	45115.7
964.715	46251
965.197	45291.9
965.679	45624
966.162	47198.7
966.644	46117.2
967.126	46513.7
967.608	47044.1
968.09	45977.5
968.572	45511.3
969.054	47229
969.536	45765.7
970.018	45658
970.501	48544.9
970.983	45993.2
971.465	48097.8
971.947	49325.9
972.429	45782.9
972.911	45756.3
973.393	50631.7
973.875	47276.5
974.357	46242.1

WN	INT
974.84	48184.3
975.322	46021.7
975.804	48999.8
976.286	47458.9
976.768	45794.5
977.25	49403.5
977.732	46028.7
978.214	45508.1
978.697	47447.6
979.179	45293.9
979.661	47095.2
980.143	44848.8
980.625	44799.6
981.107	46845.4
981.589	45184.8
982.071	46602.1
982.553	44326
983.036	44538.6
983.518	45415.9
984	44903.5
984.482	46150.3
984.964	44045.2
985.446	45079.5
985.928	43793.3
986.41	44076.3
986.892	44048.8
987.375	43690.7
987.857	44292.6
988.339	43480.8
988.821	44407.6
989.303	43263.1
989.785	43895.2
990.267	43595.5
990.749	43613.5
991.232	42927.7
991.714	43330.3
992.196	42724.2
992.678	43072.3
993.16	42723.2
993.642	42654.6
994.124	42576
994.606	42742.4
995.088	42554.4
995.571	42332.9
996.053	42447.7
996.535	42188.6
997.017	42324.9

WN	INT
997.499	42268.8
997.981	42101.9
998.463	42337.5
998.945	43841.6
999.427	41988.5
999.91	41923.7
1000.39	43472.2
1000.87	41870
1001.35	41683.5
1001.83	41383.1
1002.32	41424.6
1002.8	41138.7
1003.28	41346.6
1003.76	42041.1
1004.24	41208.1
1004.73	41097.9
1005.21	40643.3
1005.69	40767.4
1006.17	40646.9
1006.65	40394.3
1007.14	40887.1
1007.62	40328.6
1008.1	40240.6
1008.58	40081.9
1009.07	39910
1009.55	40199
1010.03	42606.8
1010.51	40318.4
1010.99	41989.9
1011.48	39804
1011.96	39764.8
1012.44	39537.2
1012.92	39107.2
1013.4	39064.8
1013.89	39139.1
1014.37	41966.2
1014.85	40196.8
1015.33	38699.5
1015.82	38397.5
1016.3	38258
1016.78	38682.1
1017.26	38449.8
1017.74	40400.5
1018.23	38474.9
1018.71	37929.7
1019.19	37934.5
1019.67	37769

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1020.15	37297.7	1042.81	34352.2	1065.47	32206.9
1020.64	37058.9	1043.29	36685.9	1065.95	34654.5
1021.12	37692.1	1043.78	33421.6	1066.43	34581.8
1021.6	36671.8	1044.26	33295.7	1066.91	32167.6
1022.08	37058.6	1044.74	33730.2	1067.4	31747.7
1022.56	36581.2	1045.22	36250.4	1067.88	31439.8
1023.05	36969.7	1045.7	33526.2	1068.36	30899.8
1023.53	36818.9	1046.19	33727.5	1068.84	31270.1
1024.01	36457.8	1046.67	34707.6	1069.32	31466.6
1024.49	36385	1047.15	35273.9	1069.81	30551.1
1024.98	36485.2	1047.63	34066.4	1070.29	31250.8
1025.46	37359.5	1048.11	34171.2	1070.77	31401.8
1025.94	36256.3	1048.6	35936.6	1071.25	30492.9
1026.42	36263.7	1049.08	35298.9	1071.73	31472.2
1026.9	36240.1	1049.56	35102	1072.22	31452.5
1027.39	37303.7	1050.04	34370.7	1072.7	32277.7
1027.87	36227.7	1050.52	37292.9	1073.18	32058.3
1028.35	38351.8	1051.01	35184.2	1073.66	31010.7
1028.83	37264.5	1051.49	35205.5	1074.15	32361.9
1029.31	37561.1	1051.97	35019.8	1074.63	34781.3
1029.8	38201.5	1052.45	35930.1	1075.11	30579.3
1030.28	36384.8	1052.93	34616.9	1075.59	30253.3
1030.76	37030.6	1053.42	34376.9	1076.07	33605.6
1031.24	36139.3	1053.9	36536.7	1076.56	29862.2
1031.72	36876.3	1054.38	34139.1	1077.04	30326
1032.21	36299.9	1054.86	34309.9	1077.52	32183.1
1032.69	36493.6	1055.35	34859.9	1078	29876
1033.17	35748.1	1055.83	36367.5	1078.48	31335.2
1033.65	37183.8	1056.31	34400	1078.97	30118.4
1034.13	35368.6	1056.79	33399.3	1079.45	29541.4
1034.62	35243.5	1057.27	35408.2	1079.93	32476.7
1035.1	35206.8	1057.76	33524.1	1080.41	29407.9
1035.58	37258.2	1058.24	33597.2	1080.89	29996.6
1036.06	34869	1058.72	34600	1081.38	31143.5
1036.54	34906.7	1059.2	34332	1081.86	29590.1
1037.03	34865.6	1059.68	33278	1082.34	31795
1037.51	37153.9	1060.17	35558.4	1082.82	28798.1
1037.99	34808.3	1060.65	33852.4	1083.3	29818.6
1038.47	34837.8	1061.13	32786.6	1083.79	30028.9
1038.96	34756.7	1061.61	32791.9	1084.27	29019.6
1039.44	38731.6	1062.09	32619.8	1084.75	31389.4
1039.92	34743.3	1062.58	34134.3	1085.23	29743.6
1040.4	34383.4	1063.06	32281.6	1085.71	30744.1
1040.88	34377	1063.54	32224.3	1086.2	28830
1041.37	37074.3	1064.02	31707.4	1086.68	28978.1
1041.85	33941	1064.5	32147.2	1087.16	29512.2
1042.33	34051.8	1064.99	31581.9	1087.64	28759.3

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1088.12	30062.8	1110.78	28793	1133.44	32455
1088.61	28628.2	1111.26	30676.5	1133.92	31886.7
1089.09	29873.2	1111.75	30708.2	1134.4	32268.7
1089.57	28458.2	1112.23	29537.8	1134.88	33417.7
1090.05	29612.8	1112.71	29220.6	1135.37	34606.5
1090.54	28489.9	1113.19	28459.6	1135.85	31999.5
1091.02	31312.5	1113.67	28357.7	1136.33	36348.2
1091.5	30701.2	1114.16	28367.9	1136.81	34141.9
1091.98	29019.5	1114.64	28945.8	1137.29	33878.3
1092.46	28304	1115.12	29449.5	1137.78	33837.1
1092.95	28442.1	1115.6	29617.5	1138.26	32557.3
1093.43	28102.6	1116.08	29240.4	1138.74	31972.8
1093.91	28173.2	1116.57	29081	1139.22	32111
1094.39	27655.2	1117.05	29044.1	1139.7	33365.7
1094.87	27930.4	1117.53	30130.2	1140.19	31766
1095.36	27546.4	1118.01	29798.9	1140.67	31309
1095.84	27937.7	1118.49	30148.4	1141.15	31271.5
1096.32	27631.5	1118.98	30195.7	1141.63	33044.4
1096.8	27922.5	1119.46	29839.3	1142.12	30376.2
1097.28	27547.4	1119.94	29473.3	1142.6	29820.9
1097.77	27825.7	1120.42	30958	1143.08	30234.5
1098.25	27605.4	1120.9	32461	1143.56	30703.6
1098.73	27909.2	1121.39	31850.7	1144.04	30335.6
1099.21	28511.1	1121.87	31673.1	1144.53	30331.2
1099.69	31009.5	1122.35	31300.6	1145.01	29305.8
1100.18	28459.6	1122.83	30332.5	1145.49	28585.4
1100.66	28203	1123.31	29540.4	1145.97	29233.2
1101.14	29218.3	1123.8	30313.2	1146.45	28820.4
1101.62	30152.2	1124.28	30145.5	1146.94	29251.2
1102.1	28315.2	1124.76	31509.5	1147.42	29175.6
1102.59	28204	1125.24	32141.9	1147.9	28578
1103.07	27938	1125.73	31833.5	1148.38	28479.1
1103.55	27660.3	1126.21	31231.3	1148.86	29361.3
1104.03	27828	1126.69	29925.8	1149.35	30933.1
1104.51	27944.4	1127.17	30010.3	1149.83	30357.1
1105	28194.5	1127.65	29658.9	1150.31	28845.9
1105.48	28493.9	1128.14	31246.9	1150.79	28703.7
1105.96	28893.3	1128.62	33374.3	1151.27	29768.8
1106.44	30418.1	1129.1	33311.5	1151.76	30356.3
1106.93	30716.5	1129.58	32239.2	1152.24	30383
1107.41	28982.8	1130.06	31036.8	1152.72	30849.8
1107.89	28543.4	1130.55	30649	1153.2	29336.9
1108.37	28771.8	1131.03	30710	1153.68	28496.7
1108.85	28555.9	1131.51	31251.9	1154.17	29144
1109.34	28790.9	1131.99	32804.9	1154.65	28958.8
1109.82	28230.9	1132.47	35452.6	1155.13	29048.7
1110.3	28343.1	1132.96	33716.3	1155.61	29245.9

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1156.09	30434.2	1178.75	29379.9	1201.41	24321.4
1156.58	29729.6	1179.23	29002.4	1201.89	23858.7
1157.06	29762	1179.72	28636.1	1202.37	23611.4
1157.54	31179	1180.2	28940.2	1202.85	23472.4
1158.02	30706.2	1180.68	29093.2	1203.34	23310
1158.5	30810.9	1181.16	27522.9	1203.82	23179.9
1158.99	31586.5	1181.64	27357.5	1204.3	23098.2
1159.47	31047.7	1182.13	27332.5	1204.78	23249.3
1159.95	31813	1182.61	27887.6	1205.26	23358.7
1160.43	32664.3	1183.09	27781.7	1205.75	23498
1160.92	32426.3	1183.57	28101.4	1206.23	24375.8
1161.4	30715.6	1184.05	28195.7	1206.71	23138.6
1161.88	31952.2	1184.54	26633.2	1207.19	23343.3
1162.36	30969.1	1185.02	26904.2	1207.67	23042.8
1162.84	32823.1	1185.5	27430.6	1208.16	23051.4
1163.33	33942.5	1185.98	27726.7	1208.64	23624.2
1163.81	33613.1	1186.46	28622.8	1209.12	23715.7
1164.29	32867.7	1186.95	26740.4	1209.6	23726.9
1164.77	32994.9	1187.43	27510.9	1210.08	23997.9
1165.25	33226.2	1187.91	27355	1210.57	24253
1165.74	34362.3	1188.39	26671.5	1211.05	24731.4
1166.22	33951.6	1188.87	26079.4	1211.53	24556.6
1166.7	33803.2	1189.36	25788.7	1212.01	24643.4
1167.18	32693.3	1189.84	25843.6	1212.5	23781.7
1167.66	32862.9	1190.32	26634	1212.98	25214.6
1168.15	31484.8	1190.8	25732.2	1213.46	23926.6
1168.63	32062	1191.28	26383.2	1213.94	23404.3
1169.11	32218.1	1191.77	25211.7	1214.42	23213.9
1169.59	32995.7	1192.25	25046.9	1214.91	23799.8
1170.07	33246.6	1192.73	25121.5	1215.39	23393.9
1170.56	32751.4	1193.21	25087.2	1215.87	22990.1
1171.04	31904.2	1193.7	25678.6	1216.35	22819.1
1171.52	31713.8	1194.18	24584.4	1216.83	22392.1
1172	31540.2	1194.66	24580.3	1217.32	22596.2
1172.48	31741.6	1195.14	25012.9	1217.8	23451.1
1172.97	32827.4	1195.62	25361.2	1218.28	23806.1
1173.45	33733.2	1196.11	25040.1	1218.76	23327.4
1173.93	32838.5	1196.59	25017	1219.24	24022
1174.41	29736.9	1197.07	25357.5	1219.73	22969.9
1174.89	30402.6	1197.55	26054.4	1220.21	23916
1175.38	31200	1198.03	25788.1	1220.69	23908.3
1175.86	31204	1198.52	25896.6	1221.17	23391.4
1176.34	31305	1199	25492.3	1221.65	23061.4
1176.82	31722.7	1199.48	24698.5	1222.14	22907.4
1177.31	29783.3	1199.96	24224.5	1222.62	23228.8
1177.79	28757.4	1200.44	23857.4	1223.1	22770.2
1178.27	28836.3	1200.93	24215	1223.58	22962.8



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WN	INT
1224.06	23157.2
1224.55	23426.1
1225.03	22404.7
1225.51	23394.3
1225.99	24457.3
1226.47	23003.7
1226.96	22089.2
1227.44	21078.9
1227.92	20547.5
1228.4	20444.6
1228.89	20771.8
1229.37	21233.5
1229.85	20207
1230.33	20030.6
1230.81	19212.1
1231.3	19041.1
1231.78	18972.8
1232.26	19040.3
1232.74	19425.9
1233.22	20214.2
1233.71	19234
1234.19	18695.4
1234.67	18638.3
1235.15	18949.1
1235.63	18805.5
1236.12	19838.5
1236.6	19733
1237.08	20302.3
1237.56	19604.8
1238.04	19310.8
1238.53	19383.3
1239.01	21145.5
1239.49	21897.7
1239.97	20534.8
1240.45	19874.8
1240.94	20261.8
1241.42	19398.9
1241.9	19617.2
1242.38	19936.6
1242.86	22459.2
1243.35	21651.8
1243.83	20229.6
1244.31	19466.2
1244.79	20985
1245.28	19803.6
1245.76	19184.5
1246.24	18770.3

WN	INT
1246.72	18873.1
1247.2	17978.5
1247.69	18488.6
1248.17	18877
1248.65	20934.8
1249.13	18521.1
1249.61	18244.1
1250.1	17841.7
1250.58	17626.2
1251.06	17964.3
1251.54	18239.8
1252.02	17706.9
1252.51	17951.5
1252.99	17219.3
1253.47	17795.7
1253.95	17512.3
1254.43	17316.6
1254.92	17225.9
1255.4	16747.3
1255.88	17136.8
1256.36	16544.6
1256.84	17284.5
1257.33	18115.5
1257.81	16605.6
1258.29	16969.8
1258.77	17383.4
1259.25	16700.9
1259.74	16462.3
1260.22	15765.8
1260.7	15863.9
1261.18	16328.2
1261.66	16204.8
1262.15	16269.8
1262.63	15891.8
1263.11	15970.4
1263.59	16508
1264.08	17400.1
1264.56	16594.7
1265.04	16639
1265.52	16820.7
1266	17857.1
1266.49	18863.1
1266.97	18433.3
1267.45	18155.5
1267.93	18182
1268.41	17270.3
1268.9	18268.5

WN	INT
1269.38	18212
1269.86	17441.1
1270.34	17797.2
1270.82	17979.5
1271.31	17628.4
1271.79	16855.6
1272.27	17540.7
1272.75	18302.5
1273.23	18278.2
1273.72	17697.4
1274.2	17214.7
1274.68	17138.4
1275.16	17109.6
1275.64	17022
1276.13	16859.6
1276.61	18104.1
1277.09	16921.9
1277.57	16772.8
1278.05	16553.5
1278.54	16433.8
1279.02	16586.3
1279.5	17010.3
1279.98	17461
1280.47	17743.4
1280.95	17788.5
1281.43	18428.1
1281.91	16740.6
1282.39	16529.8
1282.88	16597.3
1283.36	16482.5
1283.84	16654.4
1284.32	16657.4
1284.8	16796
1285.29	16607.7
1285.77	16589.8
1286.25	16866
1286.73	17183.1
1287.21	16819.5
1287.7	16425.5
1288.18	16560.1
1288.66	17377.8
1289.14	17173.5
1289.62	17199.6
1290.11	17395
1290.59	16892.9
1291.07	17814.5
1291.55	17883.2

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WN	INT	WN	INT	WN	INT
1292.03	18415.7	1314.69	15194.2	1337.35	16282.5
1292.52	18423.6	1315.17	16603.5	1337.83	15887
1293	17872.5	1315.66	17887.5	1338.31	14812.9
1293.48	16563.7	1316.14	17402.9	1338.79	14411.1
1293.96	16497.1	1316.62	15870.5	1339.28	14340.7
1294.44	16255	1317.1	14762.9	1339.76	14596.2
1294.93	16273.1	1317.58	15704.2	1340.24	13968.3
1295.41	16319.2	1318.07	16266.2	1340.72	14683.6
1295.89	16523.7	1318.55	15164.4	1341.2	15568.3
1296.37	17131.1	1319.03	14701.4	1341.69	17607
1296.85	16023.2	1319.51	15547.2	1342.17	20359.4
1297.34	17883.9	1319.99	15545.4	1342.65	22250
1297.82	16382.1	1320.48	16166.1	1343.13	23453.5
1298.3	16150.7	1320.96	16703.6	1343.61	23253
1298.78	15974.8	1321.44	20481.3	1344.1	22503.3
1299.27	16089.6	1321.92	21594.4	1344.58	25636.8
1299.75	16023.8	1322.4	22258.5	1345.06	25640
1300.23	16020.3	1322.89	22665	1345.54	24967.7
1300.71	16001.7	1323.37	18280.3	1346.02	24409.8
1301.19	16103.6	1323.85	23142.3	1346.51	26998.7
1301.68	16110.8	1324.33	24717.5	1346.99	25669.6
1302.16	16198.2	1324.81	25878.1	1347.47	25093.4
1302.64	16416.3	1325.3	26784.5	1347.95	25910.8
1303.12	16484.4	1325.78	26765.8	1348.43	24461.1
1303.6	16254.7	1326.26	25955.1	1348.92	18333.2
1304.09	16507.2	1326.74	27766.3	1349.4	16542.2
1304.57	16799.7	1327.22	26475.8	1349.88	17440.4
1305.05	16676.5	1327.71	25051.6	1350.36	20939.4
1305.53	17246.7	1328.19	26536.1	1350.85	23538.3
1306.01	16781.8	1328.67	28952	1351.33	24202
1306.5	17357	1329.15	29033.8	1351.81	22445.8
1306.98	17384.1	1329.63	24639.5	1352.29	21475.8
1307.46	17363.1	1330.12	21057.7	1352.77	23785.8
1307.94	16333.4	1330.6	28633.2	1353.26	23124.5
1308.42	15797.8	1331.08	29879.2	1353.74	22168.9
1308.91	17386.9	1331.56	29468.9	1354.22	18166.6
1309.39	17684	1332.05	27625	1354.7	14649.6
1309.87	17608.3	1332.53	26086.2	1355.18	14533.5
1310.35	17749	1333.01	25371.8	1355.67	16591.1
1310.83	18219.9	1333.49	25576.9	1356.15	19238.1
1311.32	17968.6	1333.97	26992.7	1356.63	20559.9
1311.8	17826.9	1334.46	25310.3	1357.11	19333.8
1312.28	16027.4	1334.94	26028.6	1357.59	20032.7
1312.76	15181.5	1335.42	23167.6	1358.08	14401.2
1313.24	15368.5	1335.9	21069	1358.56	15872.7
1313.73	14835.9	1336.38	16965.6	1359.04	16040.2
1314.21	16213.5	1336.87	15556	1359.52	17324.7

Filenam LMA0112  
Subfile: 0201

Type: ON STACK

WN	INT
1360	15560.6
1360.49	13098.8
1360.97	11449.6
1361.45	11893.4
1361.93	11839.7
1362.41	11310
1362.9	10472
1363.38	9784.83
1363.86	11379.6
1364.34	11509.8
1364.82	12324
1365.31	13308.1
1365.79	13918.4
1366.27	14556.6
1366.75	14941.5
1367.24	14215.1
1367.72	12655.7
1368.2	11225.1
1368.68	10459.9
1369.16	11154.8
1369.65	11399.2
1370.13	12197
1370.61	13965.3
1371.09	12006.6
1371.57	12807.8
1372.06	11312.5
1372.54	10705.5
1373.02	10512.5
1373.5	9652.27
1373.98	8998.47
1374.47	10135.1
1374.95	9521.55
1375.43	10030.7
1375.91	10298.6
1376.39	10881.9
1376.88	11777.3
1377.36	11898.4
1377.84	10500.3
1378.32	10463.6
1378.8	11447.6
1379.29	11410.8
1379.77	10470.9
1380.25	11123.1
1380.73	14246.4
1381.21	15713.3
1381.7	14169.3
1382.18	11851.9

WN	INT
1382.66	14906
1383.14	13876.8
1383.63	12657.3
1384.11	13852.1
1384.59	13435.8
1385.07	12336.3
1385.55	11032.7
1386.04	10185.1
1386.52	9456.04
1387	9305.23
1387.48	7486.91
1387.96	9214.62
1388.45	9364.14
1388.93	9327.91
1389.41	9513.64
1389.89	9388.39
1390.37	9197.45
1390.86	8868.17
1391.34	9031.44
1391.82	9292.42
1392.3	8977.49
1392.78	8811.16
1393.27	8609.03
1393.75	8347.84
1394.23	7099.56
1394.71	6650.53
1395.19	8138.88
1395.68	7467.68
1396.16	7997.83
1396.64	8287.36
1397.12	8228.24
1397.6	7736.67
1398.09	8034.94
1398.57	7882.25
1399.05	6593.81
1399.53	7405.14
1400.01	8164.2
1400.5	8203.43
1400.98	8245.96
1401.46	8353.13
1401.94	8432.9
1402.43	8443.66
1402.91	8372.24
1403.39	8248.99
1403.87	8205.49
1404.35	7980.36
1404.84	7107

WN	INT
1405.32	7670.54
1405.8	8233.98
1406.28	8239.38
1406.76	8379.64
1407.25	8531.62
1407.73	8657.89
1408.21	8710.51
1408.69	8570.67
1409.17	8769.03
1409.66	8406.02
1410.14	8086.48
1410.62	8474.91
1411.1	8361.05
1411.58	7878.75
1412.07	7928.85
1412.55	8176.17
1413.03	8314.35
1413.51	8298.06
1413.99	8215.18
1414.48	7981.95
1414.96	7756.56
1415.44	7720.17
1415.92	7376.54
1416.4	7334.43
1416.89	7266.14
1417.37	6417.15
1417.85	7129.16
1418.33	7111.54
1418.81	5991.34
1419.3	4638.5
1419.78	5690.18
1420.26	7284.66
1420.74	7382.25
1421.23	7329.96
1421.71	7362.44
1422.19	7392.18
1422.67	7361.54
1423.15	7199.49
1423.64	6615.43
1424.12	6600.28
1424.6	7506.07
1425.08	7530.93
1425.56	7604.93
1426.05	7612.85
1426.53	7639.56
1427.01	7626.98
1427.49	7547.81

Filenam LMA0112  
Subfile: 0201

Type: ON STACK

WN	INT
1427.97	7463.38
1428.46	7381.58
1428.94	7419.29
1429.42	7085.78
1429.9	6042.85
1430.38	7211.74
1430.87	7355.93
1431.35	7306.23
1431.83	7200.02
1432.31	7250.34
1432.79	7149.54
1433.28	6913.36
1433.76	7198.03
1434.24	7213.52
1434.72	7157.71
1435.2	6980.26
1435.69	6645.41
1436.17	6033.27
1436.65	4117.4
1437.13	5366.08
1437.62	6978.12
1438.1	7127.21
1438.58	7160.56
1439.06	7167.67
1439.54	7188.16
1440.03	7187.96
1440.51	7257.67
1440.99	7296.95
1441.47	7264.34
1441.95	7487.51
1442.44	7525.53
1442.92	7432.54
1443.4	7545.13
1443.88	7573.35
1444.36	7524.83
1444.85	7447.31
1445.33	7317.18
1445.81	7342.84
1446.29	7255.61
1446.77	7155.03
1447.26	7011.51
1447.74	6102.08
1448.22	6106.83
1448.7	6985.6
1449.18	7026.33
1449.67	6986.51
1450.15	6944.94

**APPENDIX D**  
**NITROUS OXIDE ABSORBANCES**

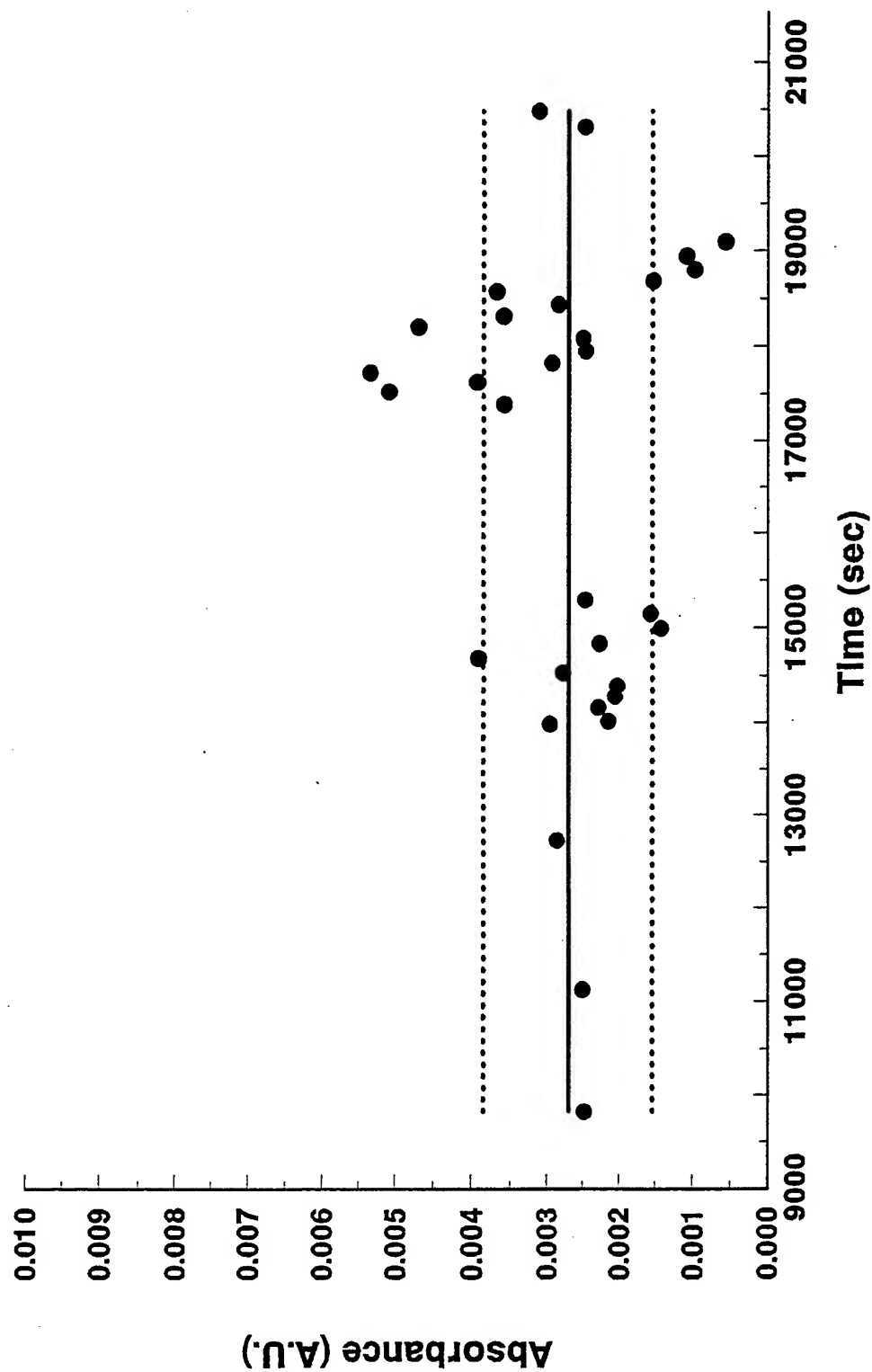
Tabulations of  $A$  and  $\tau$  at two nitrous oxide bands are provided for the acid plant  $N_2O$  stack. The tables include TOD and IOT. Following each table is a set of plots for  $A$  and  $\tau$  as a function of IOT for each  $N_2O$  band. For a statistically significant number of measurements the average and BESD are furnished. The information appears in the order that is indicated by the summary table below.

DATE	SPS ( $cm^{-1}$ )	No. Pts.
26JUN00	4	31
27JUN00	0.5	22

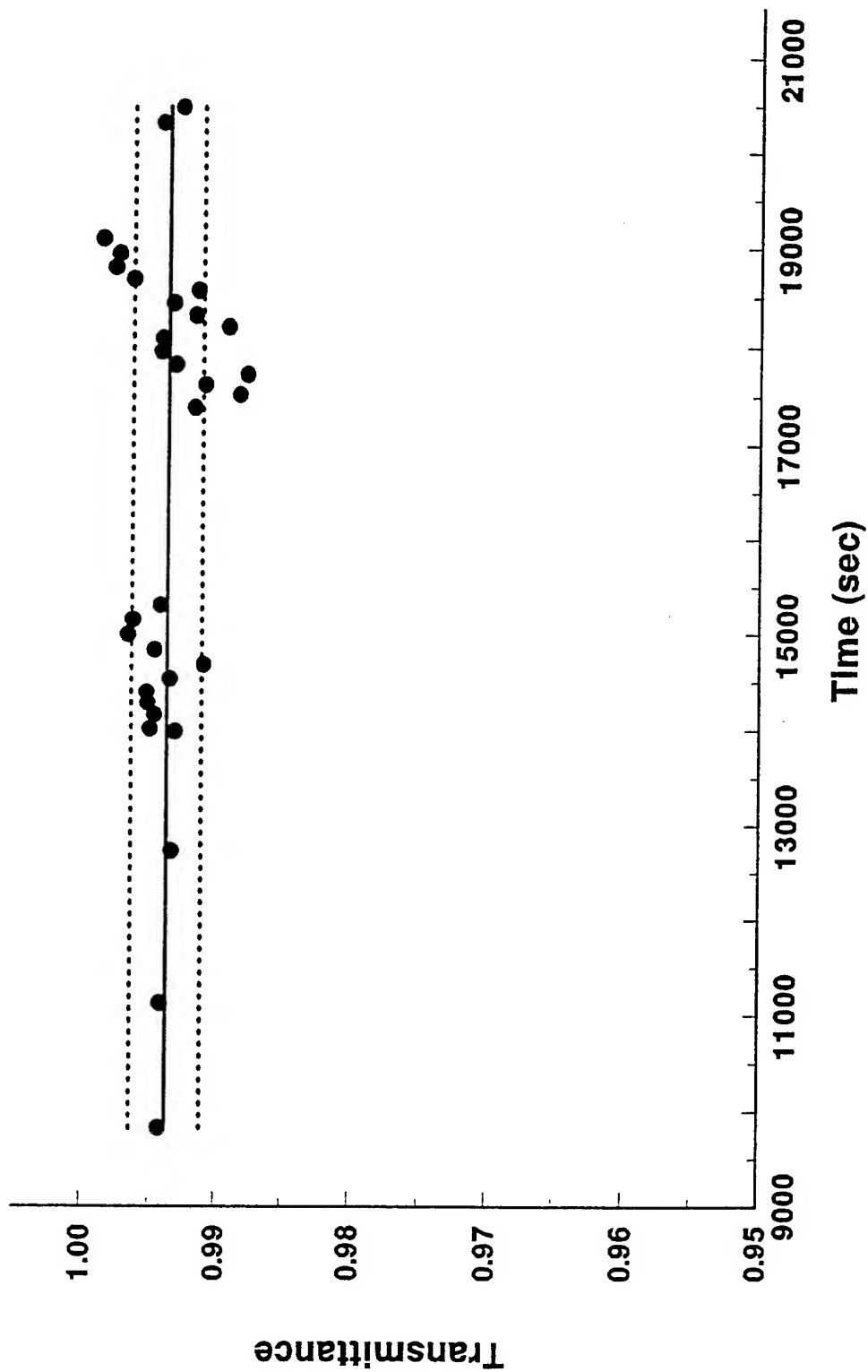
Date: 26 June 2000  
Source: N<sub>2</sub>O Stack  
SPS: 4 cm<sup>-1</sup>

Filename	TOD Hr:Mn:Sc	IOT (sec)	1145.5 cm <sup>-1</sup>		1184.0 cm <sup>-1</sup>	
			A*10 <sup>3</sup> (A.U.)	τ	A*10 <sup>3</sup> (A.U.)	τ
LMA0002	11:43:39	9819	2.478836	0.9943086	2.402839	0.9944826
LMA0003	12:05:21	11121	2.502627	0.9942541	2.084983	0.9952106
LMA0004	12:32:06	12726	2.859696	0.9934369	3.376192	0.9922562
LMA0005	12:52:59	13979	2.956822	0.9932149	2.949715	0.9932311
	12:53:30	14010	2.145043	0.9950730	2.386292	0.9945204
	12:55:58	14158	2.286102	0.9947499	2.822891	0.9935211
	12:58:00	14280	2.055582	0.9952781	2.214619	0.9949136
	12:59:48	14388	2.026500	0.9953447	2.420086	0.9944431
	13:02:06	14526	2.777340	0.9936253	2.493271	0.9942754
	13:04:39	14679	3.911256	0.9910344	3.369922	0.9922705
	13:07:15	14835	2.271575	0.9947832	2.363602	0.9947098
	13:09:54	14994	1.428594	0.9967160	1.700265	0.9960926
	13:12:28	15148	1.564862	0.9964032	1.977241	0.9954576
	13:14:58	15298	2.465522	0.9943391	2.712885	0.9937728
LMA0007	13:49:42	17382	3.580542	0.9917894	4.054843	0.9907069
	13:51:56	17516	5.085078	0.9883595	5.542362	0.9873194
	13:53:35	17615	3.929585	0.9909926	4.554810	0.9895670
	13:55:17	17717	5.342266	0.9877744	5.990191	0.9863018
	13:57:00	17820	2.924107	0.9932896	4.472871	0.9897538
	13:59:09	17949	2.461695	0.9943478	4.012505	0.9908035
	14:01:18	18078	2.494306	0.9942731	3.860098	0.9911512
	14:03:17	18197	4.696837	0.9892434	4.956364	0.9886524
	14:05:12	18312	3.583266	0.9917831	4.515257	0.9896571
	14:07:13	18433	2.837045	0.9934880	3.352434	0.9923104
	14:09:25	18565	3.673232	0.9915778	3.769775	0.9913573
	14:11:18	18678	1.530116	0.9964829	2.038126	0.9953180
LMA0008	14:13:17	18797	0.974773	0.9977580	1.490130	0.9965748
	14:15:39	18939	1.077514	0.9975221	1.282908	0.9970504
	14:18:09	19089	0.566785	0.9986958	0.849291	0.9980646
LMA0010	14:38:22	20302	2.464166	0.9943421	2.712725	0.9937732
	14:41:10	20470	3.105419	0.9928751	3.494526	0.9919859
AVE			2.693575	0.9938094	3.090984	0.9929179
BESD			1.155369	0.0026307	1.268150	0.0029191

26 June 2000, N<sub>2</sub>O Stack  
1145.5 cm<sup>-1</sup>

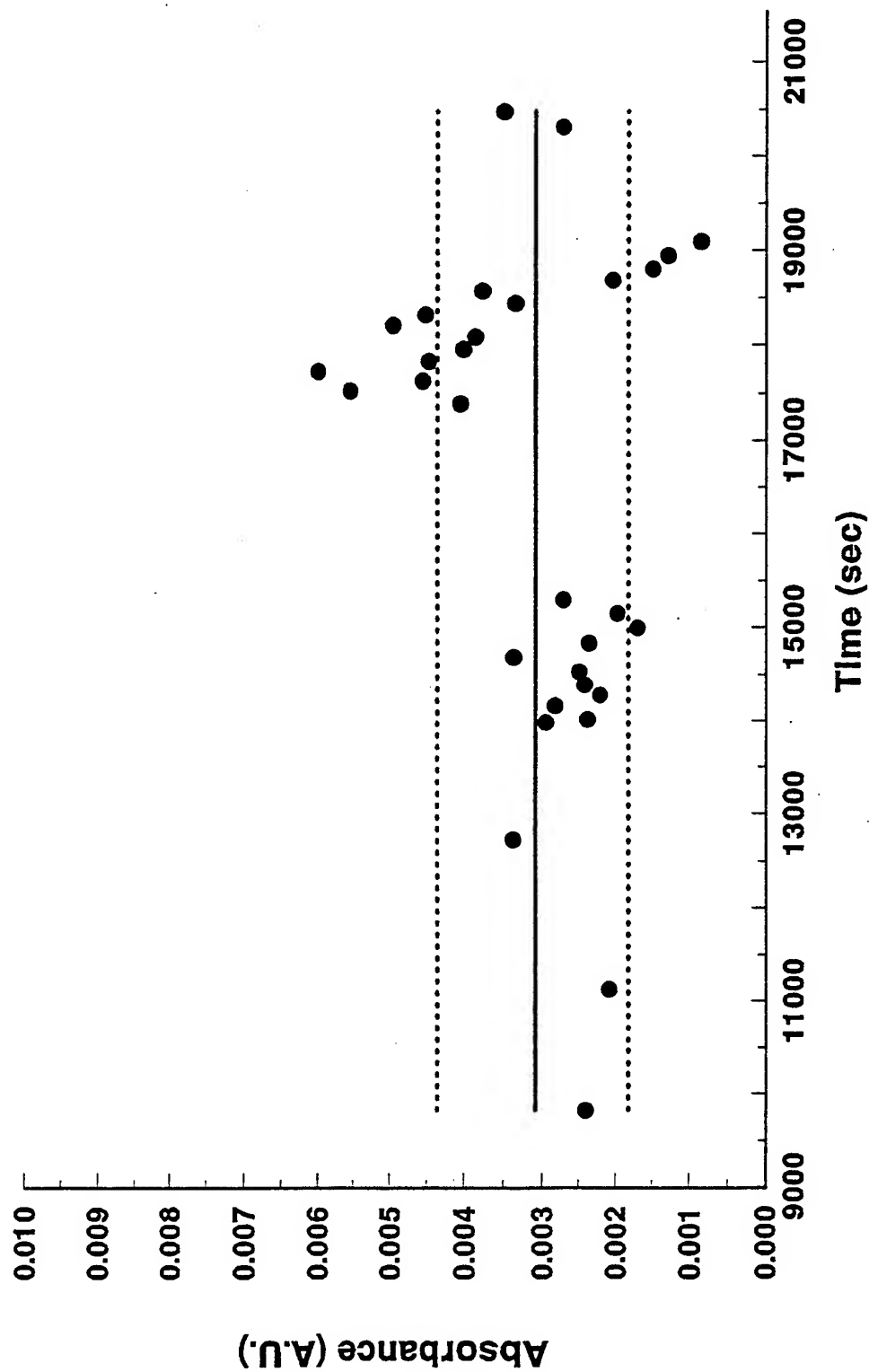


26 June 2000, N<sub>2</sub>O Stack  
1145.5 cm<sup>-1</sup>

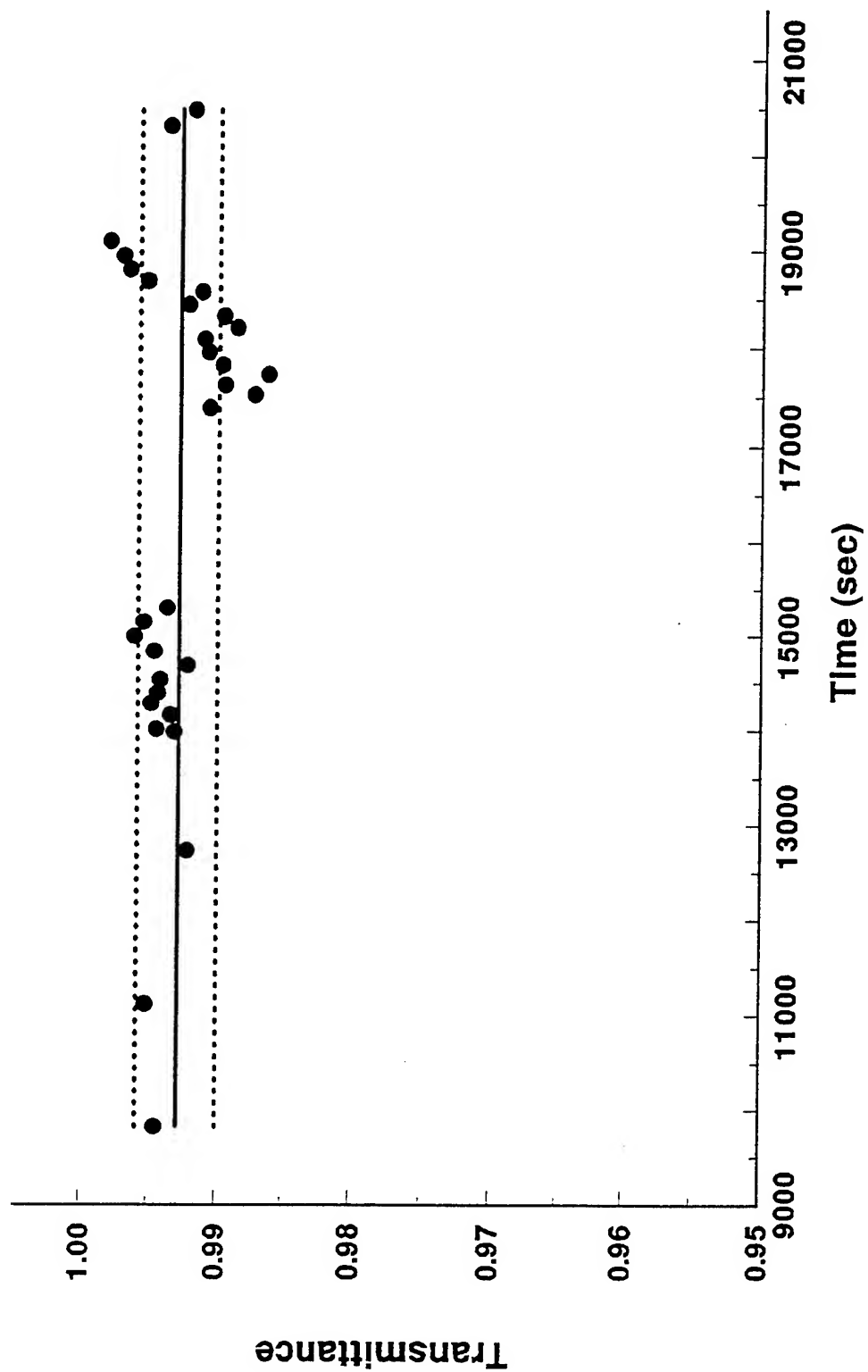




26 June 2000, N<sub>2</sub>O Stack  
1184.0 cm<sup>-1</sup>



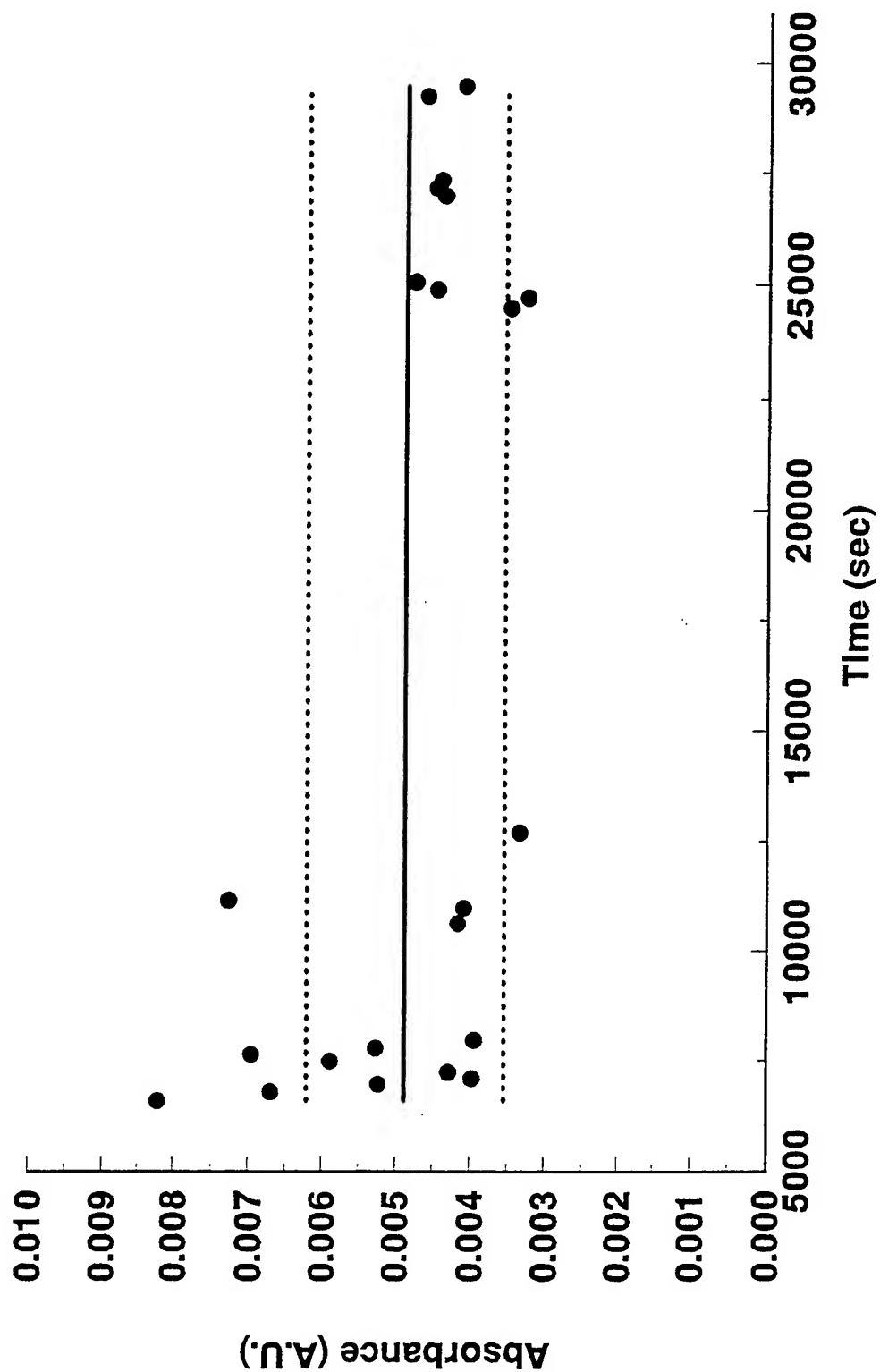
26 June 2000, N<sub>2</sub>O Stack  
1184.0 cm<sup>-1</sup>



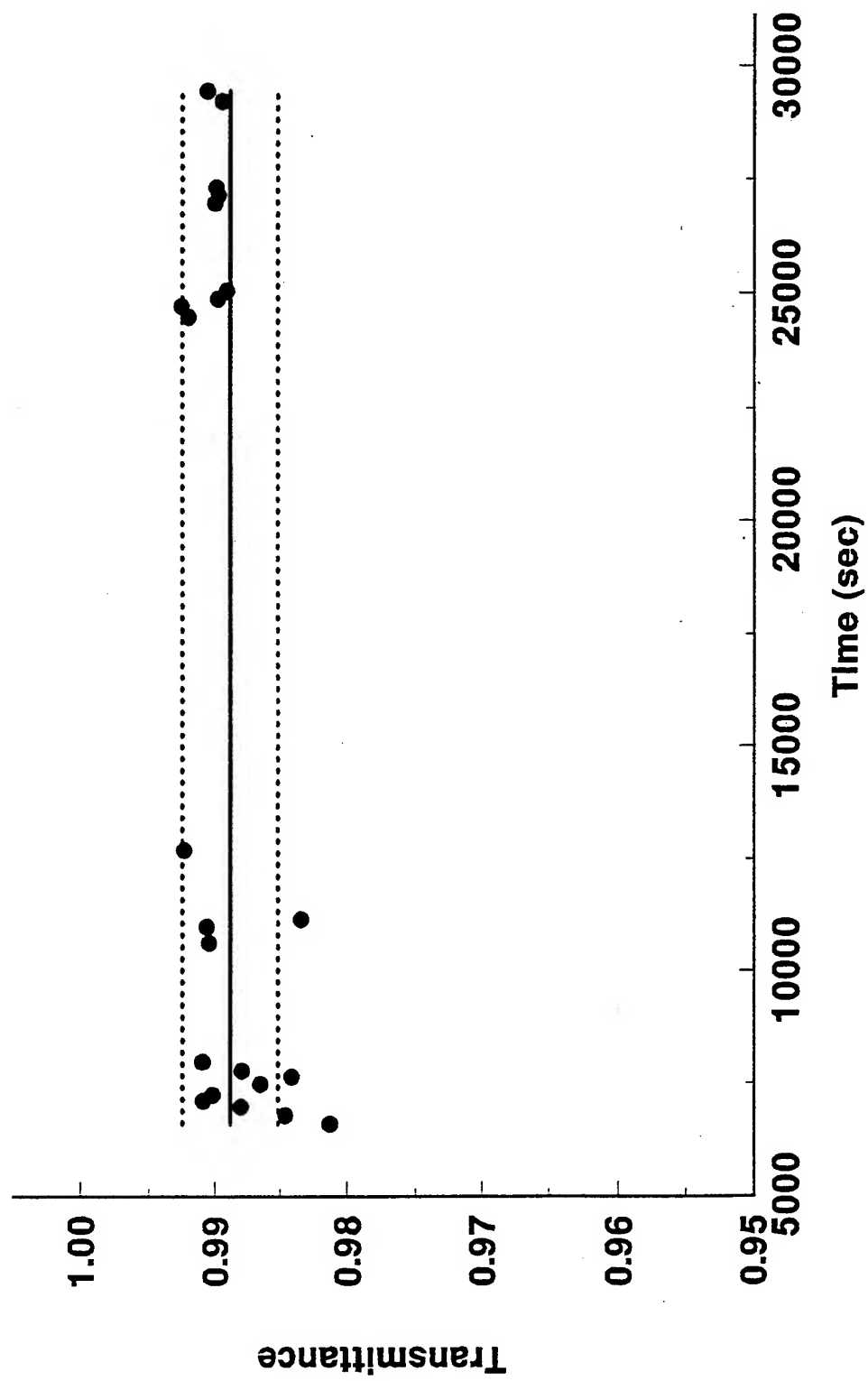
Date: 27 June 2000  
Source: N<sub>2</sub>O Stack  
SPS: 0.5 cm<sup>-1</sup>

Filename	TOD Hr:Mn:Sc	IOT (sec)	1146.9 cm <sup>-1</sup>		1179.2 cm <sup>-1</sup>	
			A*10 <sup>3</sup> (A.U.)	τ	A*10 <sup>3</sup> (A.U.)	τ
LMA0111	08:54:49	6589	8.216743	0.9812581	7.170596	0.9836246
	08:58:07	6787	6.704044	0.9846190	6.188630	0.9862367
	09:00:59	6959	5.230908	0.9880260	4.785627	0.9890411
	09:03:17	7097	3.973970	0.9908913	3.734178	0.9914386
	09:05:35	7235	4.284751	0.9901850	3.830120	0.9910761
	09:09:38	7478	5.885720	0.9865391	5.003411	0.9885454
	09:12:13	7633	6.957349	0.9841078	5.475038	0.9874724
	09:14:33	7773	5.268309	0.9879426	4.535526	0.9896109
	09:17:43	7963	3.942890	0.9909622	3.633701	0.9916681
LMA0113	10:02:02	10622	4.164708	0.9904562	4.725644	0.9891778
	10:07:51	10971	4.087113	0.9906332	4.949177	0.9886688
	10:10:43	11143	7.270911	0.9833975	7.099728	0.9837851
LMA0115	10:36:23	12683	3.338674	0.9923419	3.744482	0.9914151
LMA0126	13:52:59	24479	3.483111	0.9920119	3.955663	0.9909331
	13:56:43	24703	3.255617	0.9925317	3.736745	0.9914328
	13:59:36	24876	4.469822	0.9897606	4.596616	0.9894718
	14:02:28	25048	4.765282	0.9890875	4.626082	0.9894046
LMA0128	14:34:26	26966	4.371316	0.9899852	4.145160	0.9905008
	14:37:18	27138	4.493703	0.9897062	4.239860	0.9902849
	14:40:11	27311	4.421526	0.9898708	4.076630	0.9906571
LMA0130	15:12:04	29224	4.615714	0.9894283	4.612580	0.9894354
	15:15:48	29448	4.111224	0.9905783	4.237722	0.9902898
AVE			4.848030	0.9889007	4.642032	0.9893708
BESD			1.311538	0.0030022	0.987186	0.0022323

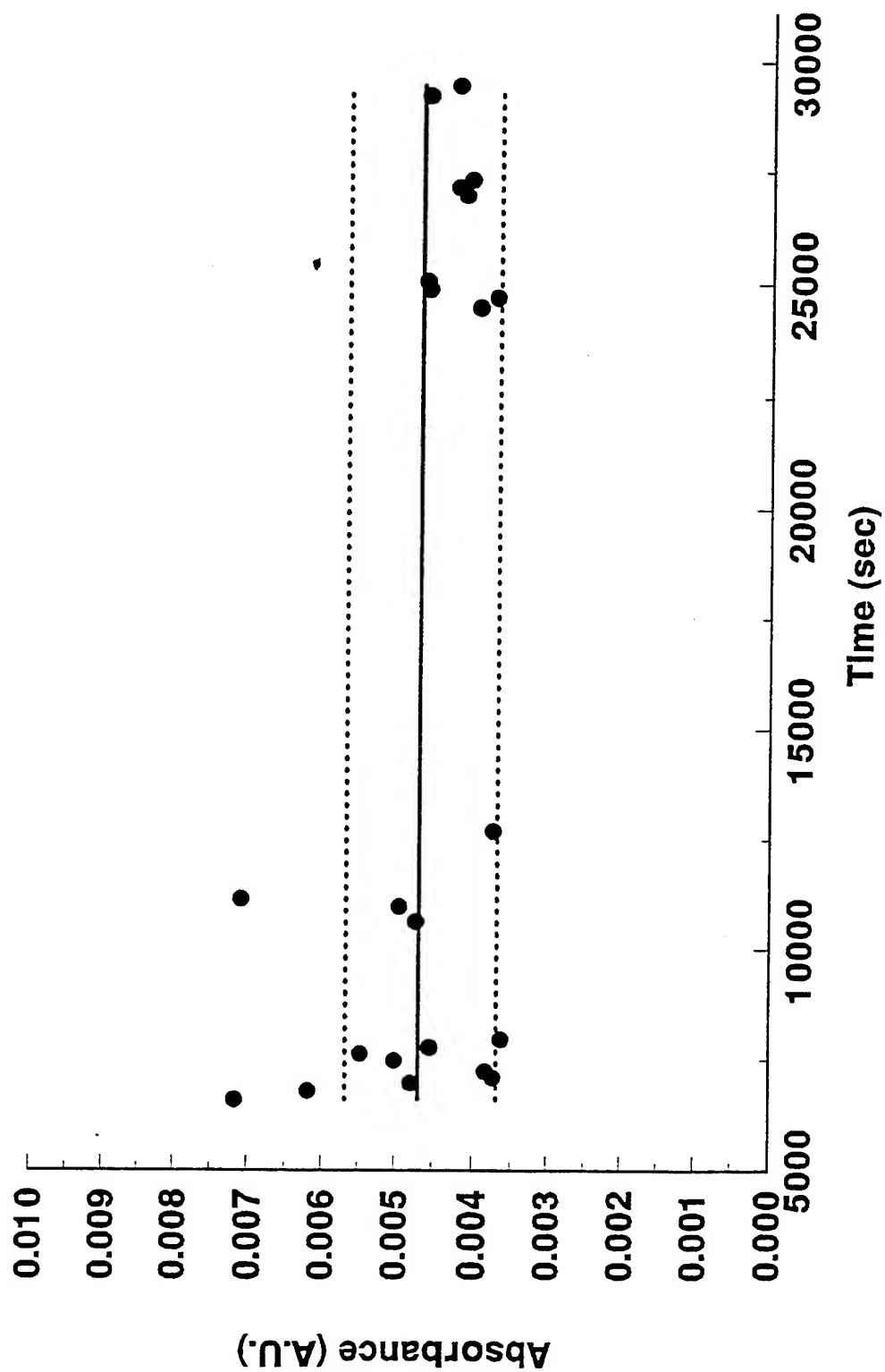
27 June 2000, N<sub>2</sub>O Stack  
1146.9 cm<sup>-1</sup>



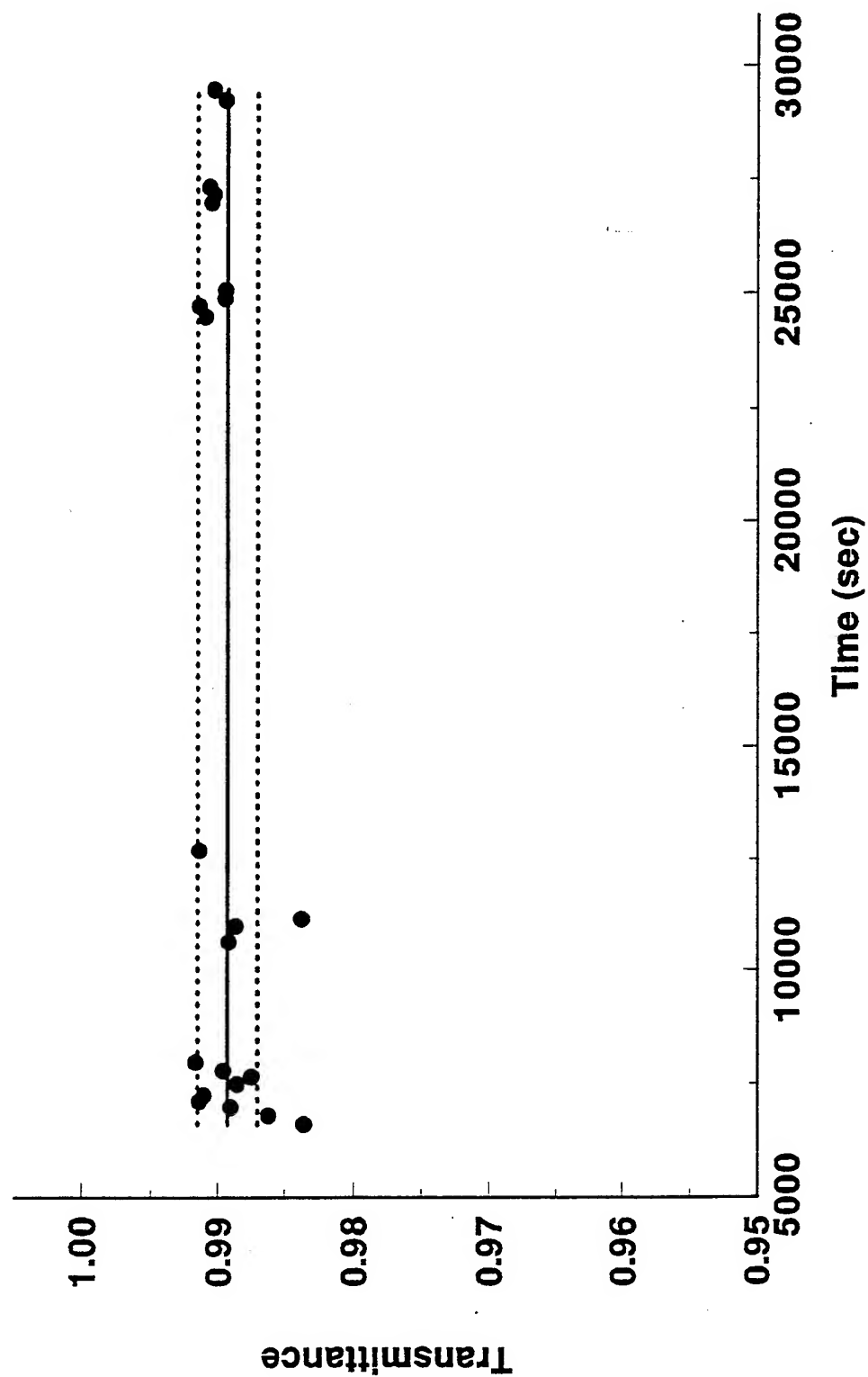
27 June 2000, N<sub>2</sub>O Stack  
1146.9 cm<sup>-1</sup>



27 June 2000, N<sub>2</sub>O Stack  
1179.2 cm<sup>-1</sup>



27 June 2000, N<sub>2</sub>O Stack  
1179.2 cm<sup>-1</sup>



**Blank**



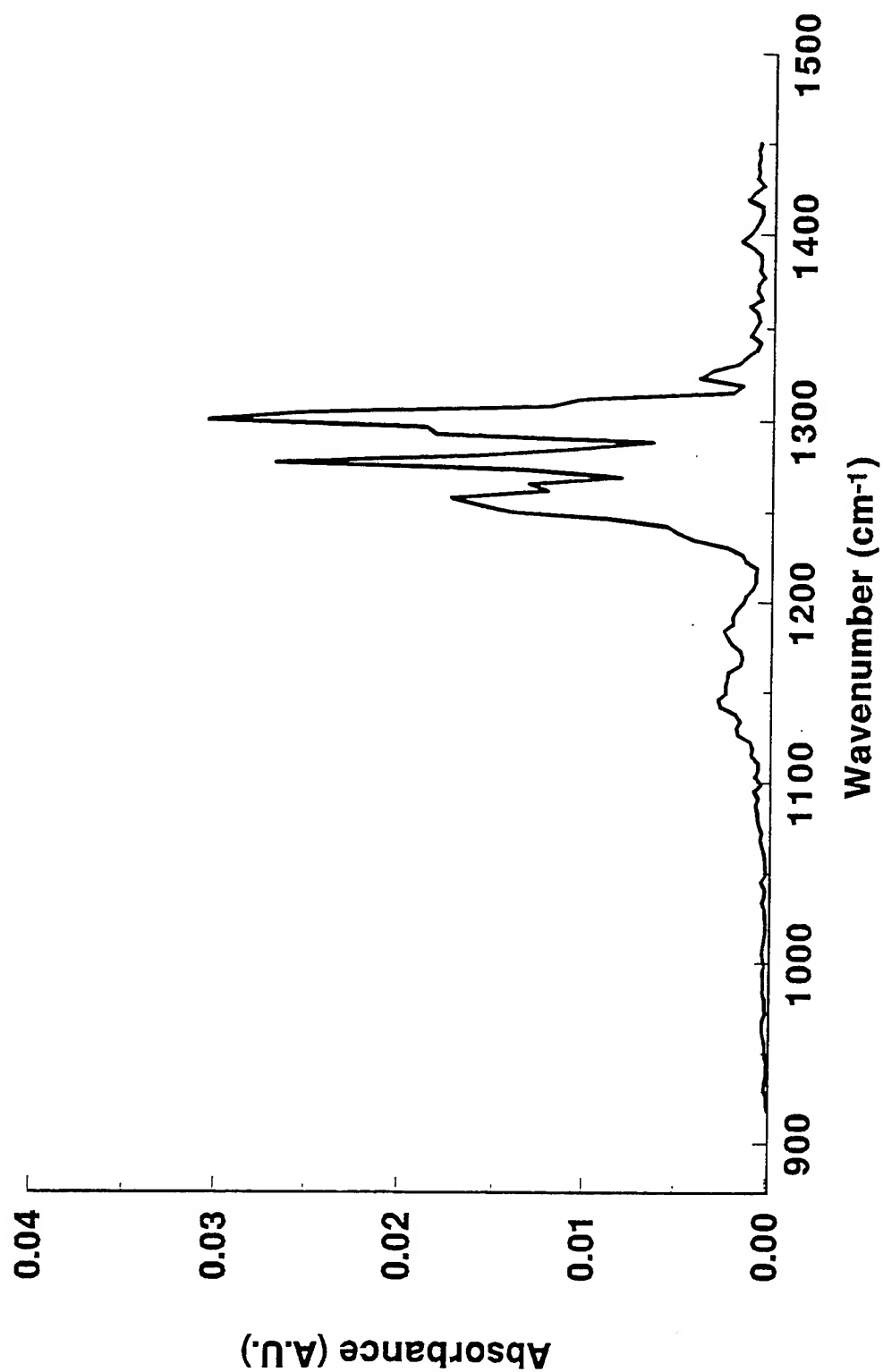
## APPENDIX E

### NITROUS OXIDE SPECTRA

Representative spectra of absorbance, single-beam blackbody, and single-beam on/off stack are provided in the form of plots and spectral listings. The order of appearance of these files is summarized in the table below.

DATE	TOD	FILENAME	SPS (cm <sup>-1</sup> )
26JUN00	13:02:06	LMA0005	4
27JUN00	09:38:00	LMA0115	0.5
27JUN00	14:02:28	LMA0126	0.5

**ABSORBANCE**  
**LMA0005**



Filename: LMA0005

Type:

Absorbance

WN	ABS
748.245	-0.0008019
752.102	-0.0007931
755.959	-0.0007025
759.815	-0.000805
763.672	-0.0008512
767.529	-0.0007138
771.386	-0.0005806
775.243	-0.0008534
779.1	-0.0007808
782.957	-0.0009125
786.814	-0.0007696
790.67	-0.0004274
794.527	-0.0007027
798.384	-0.0006736
802.241	-0.0007077
806.098	-0.0004586
809.955	-0.0005696
813.812	-0.0005597
817.669	-0.0005836
821.525	-0.0007139
825.382	-0.0005648
829.239	-0.0005829
833.096	-0.0005785
836.953	-0.0005347
840.81	-0.0005459
844.667	-0.0003921
848.523	-0.000623
852.38	-0.0003568
856.237	-0.0004927
860.094	-0.0003769
863.951	-0.0003892
867.808	-0.0004285
871.665	-0.0004342
875.522	-0.0004726
879.378	-0.0003591
883.235	-0.0002932
887.092	-0.0003137
890.949	-0.0002225
894.806	-0.0002854
898.663	-0.0001393
902.52	-0.0002997
906.377	-0.0001512
910.233	-0.0001421
914.09	-0.0001662
917.947	-0.0000959
921.804	-0.000046
925.661	-0.000043

WN	ABS
929.518	0.0001055
933.375	0.0000647
937.232	-0.0000215
941.088	-0.0000243
944.945	-0.0000393
948.802	0.0000838
952.659	0.0000915
956.516	0.0000939
960.373	0.0001961
964.23	0.0002505
968.087	0.00022
971.943	0.0000573
975.8	0.0001007
979.657	0.0001049
983.514	0.0001938
987.371	0.0001846
991.228	0.0002055
995.085	0.0002173
998.941	0.0001465
1002.79	0.0002309
1006.65	0.0002588
1010.51	0.000184
1014.36	0.0001422
1018.22	0.0001049
1022.08	0.0000803
1025.94	0.0001259
1029.79	0.0001324
1033.65	0.000279
1037.51	0.0001618
1041.36	0.0001567
1045.22	0.0003365
1049.08	0.0001086
1052.93	0.0001273
1056.79	0.0001347
1060.65	0.0001733
1064.5	0.0003071
1068.36	0.0004217
1072.22	0.00035
1076.07	0.0004951
1079.93	0.0005686
1083.79	0.0005946
1087.64	0.0006605
1091.5	0.000576
1095.36	0.00075
1099.21	0.0003903
1103.07	0.000711
1106.93	0.000552

Filename: LMA0005

Type:

Absorbance

WN	ABS	WN	ABS
1110.79	0.0005713	1292.06	0.0182552
1114.64	0.0009138	1295.91	0.0187683
1118.5	0.0008734	1299.77	0.0305788
1122.36	0.0010123	1303.63	0.0255867
1126.21	0.001669	1307.48	0.012048
1130.07	0.0017607	1311.34	0.0103392
1133.93	0.0015685	1315.2	0.0020797
1137.78	0.0018493	1319.05	0.0015733
1141.64	0.002639	1322.91	0.0038928
1145.5	0.0027738	1326.77	0.0032559
1149.35	0.0023721	1330.62	0.0018074
1153.21	0.0023812	1334.48	0.0013562
1157.07	0.002291	1338.34	0.000807
1160.92	0.0022201	1342.19	0.0006249
1164.78	0.0015666	1346.05	0.0011307
1168.64	0.001484	1349.91	0.0009004
1172.49	0.0015852	1353.76	0.0006774
1176.35	0.0020479	1357.62	0.0007926
1180.21	0.0022782	1361.48	0.0011655
1184.06	0.0024905	1365.33	0.0005567
1187.92	0.0020029	1369.19	0.0007935
1191.78	0.0020157	1373.05	0.0007689
1195.64	0.001842	1376.91	0.0004383
1199.49	0.0014448	1380.76	0.0006846
1203.35	0.0012886	1384.62	0.0006087
1207.21	0.0009446	1388.48	0.0006291
1211.06	0.0007561	1392.33	0.0010585
1214.92	0.0007456	1396.19	0.0016854
1218.78	0.0007104	1400.05	0.0012094
1222.63	0.0013001	1403.9	0.0009331
1226.49	0.0015453	1407.76	0.0007037
1230.35	0.0023581	1411.62	0.0005548
1234.2	0.0041482	1415.47	0.0005881
1238.06	0.0050365	1419.33	0.0013412
1241.92	0.0056229	1423.19	0.0009875
1245.77	0.0087534	1427.04	0.0005047
1249.63	0.0141444	1430.9	0.0008427
1253.49	0.0160012	1434.76	0.000772
1257.34	0.0174407	1438.61	0.0008328
1261.2	0.0121827	1442.47	0.0007294
1265.06	0.0131427	1446.33	0.0007861
1268.91	0.0081947	1450.18	0.0006961
1272.77	0.013387		
1276.63	0.0267968		
1280.49	0.0161655		
1284.34	0.0106353		
1288.2	0.0064575		

Filename: LMA0011  
Subfile: 0001

Type: 40 deg C BB

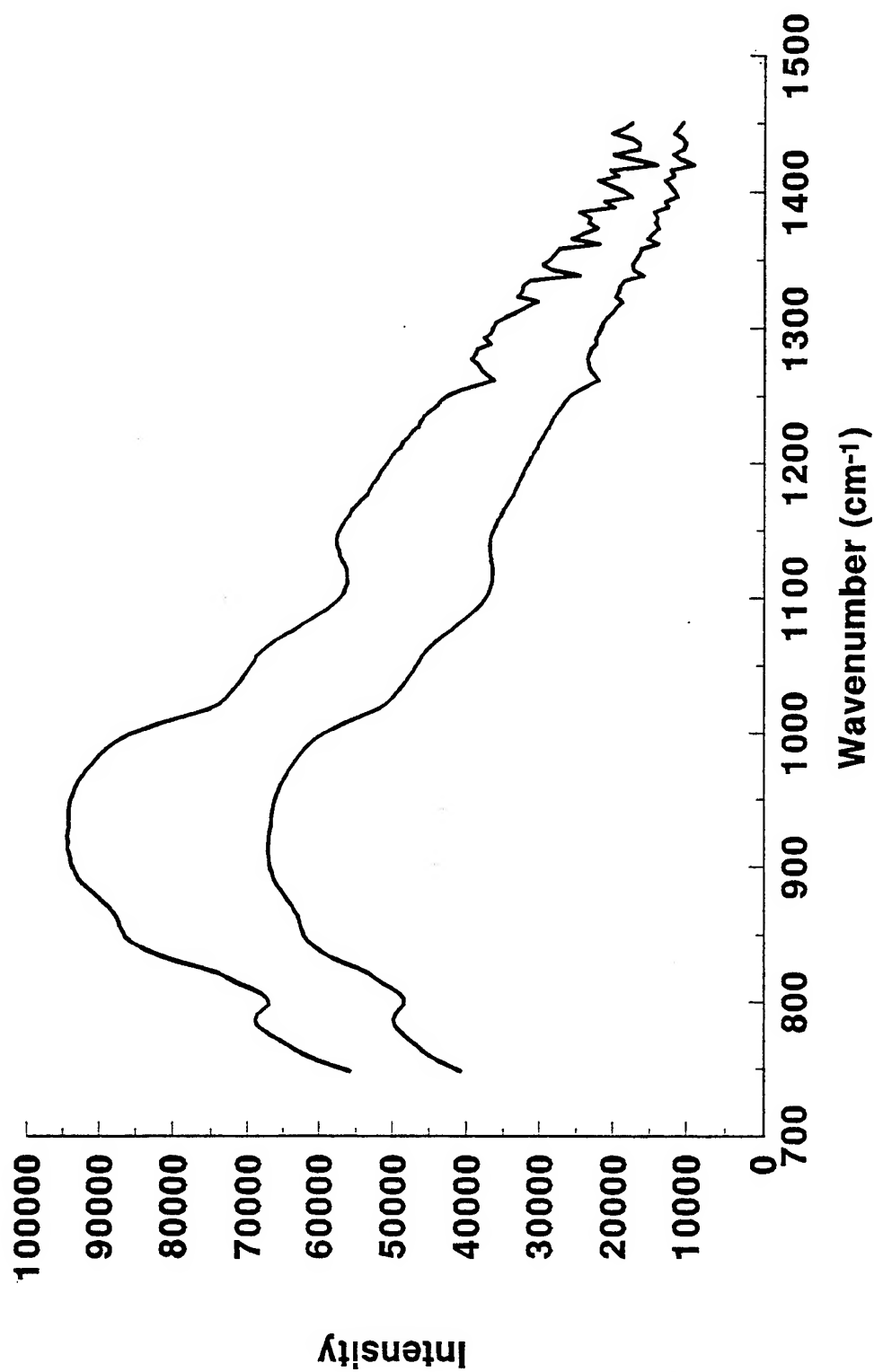
WN	INT	WN	INT
748.245	40830.4	929.521	66786.9
752.102	42470.6	933.378	66718.8
755.959	43839.4	937.234	66626.6
759.816	45019.5	941.091	66524.7
763.672	45957.2	944.948	66434.5
767.529	46683.2	948.805	66237.8
771.386	47562.1	952.662	65961.8
775.243	48453	956.519	65683.5
779.1	49193.8	960.376	65387.4
782.957	49714	964.233	65010
786.814	49869.3	968.09	64564.8
790.671	49559.4	971.947	64180.7
794.528	49016.4	975.804	63641.4
798.385	48445.6	979.661	63195.2
802.242	48462.1	983.518	62568.7
806.099	48995.9	987.375	62024.3
809.956	50114.1	991.232	61317.9
813.813	51358.7	995.088	60528.9
817.669	52404.8	998.945	59479
821.526	53343.9	1002.8	58216.9
825.383	54906	1006.65	56732
829.24	56672.5	1010.51	55058.2
833.097	58290.9	1014.37	53319.7
836.954	59618.7	1018.23	51826.6
840.811	60595.2	1022.08	50741.4
844.668	61427.8	1025.94	50002.4
848.525	62015.6	1029.8	49434.4
852.382	62284.3	1033.65	48855.6
856.239	62521.7	1037.51	48234.2
860.096	62681.7	1041.37	47790.6
863.953	62999.6	1045.22	47283.7
867.81	63427.6	1049.08	46868.4
871.667	63846.3	1052.94	46435.4
875.524	64388.5	1056.8	46038.7
879.38	64925.7	1060.65	45456.3
883.237	65443.5	1064.51	44767.1
887.094	65975	1068.37	43989.9
890.951	66347	1072.22	43083.7
894.808	66590.3	1076.08	42102.3
898.665	66812	1079.94	41277.7
902.522	66976.6	1083.79	40374.6
906.379	67012.1	1087.65	39530.4
910.236	67102.1	1091.51	38718
914.093	67141.2	1095.36	38024.9
917.95	67050.7	1099.22	37462.8
921.807	67024.5	1103.08	37059.2
925.664	66896.3	1106.94	36810

Filename: LMA0011  
Subfile: 0001

Type: 40 deg C BB

WN	INT	WN	INT
1110.79	36559.4	1292.07	22477.6
1114.65	36500.5	1295.93	22063.9
1118.51	36435.6	1299.78	21769.2
1122.36	36477.6	1303.64	21452.7
1126.22	36610.6	1307.5	20891.7
1130.08	36748.5	1311.35	20154.3
1133.93	36805.3	1315.21	19582.5
1137.79	36878.4	1319.07	18941.2
1141.65	36793.8	1322.92	19685.6
1145.5	36661.1	1326.78	19352.7
1149.36	36393.3	1330.64	19119.8
1153.22	36050.9	1334.49	18582.4
1157.08	35725.3	1338.35	16059.2
1160.93	35284.2	1342.21	17260
1164.79	34984.4	1346.07	17471.1
1168.65	34538.5	1349.92	17006.5
1172.5	34079.2	1353.78	16618
1176.36	33618.5	1357.64	16248.8
1180.22	33298.3	1361.49	14034.1
1184.07	32972.6	1365.35	15338.5
1187.93	32611.8	1369.21	14674.6
1191.79	32334.3	1373.06	13874
1195.64	31988.6	1376.92	14308.7
1199.5	31583.6	1380.78	14080.3
1203.36	31212.3	1384.63	14437.7
1207.22	30872.9	1388.49	12630.1
1211.07	30402.4	1392.35	12911.2
1214.93	30071.5	1396.21	11454.3
1218.79	29629.7	1400.06	11786.3
1222.64	29237.1	1403.92	12380.1
1226.5	28733.4	1407.78	12946.5
1230.36	28395.4	1411.63	11888.8
1234.21	28061.9	1415.49	12129.3
1238.07	27549.6	1419.35	9387.4
1241.93	26996.3	1423.2	10802
1245.79	26525.5	1427.06	11822.9
1249.64	25925.6	1430.92	10553.3
1253.5	24883.7	1434.77	10318.3
1257.36	23473.2	1438.63	10707.1
1261.21	22172	1442.49	11745
1265.07	22595.4	1446.35	11214.2
1268.93	23190	1450.2	10691.6
1272.78	23420.7		
1276.64	23587.8		
1280.5	23344.1		
1284.35	23104		
1288.21	22431.4		

**Blackbody Response at 40°C and 80°C**  
**LMA0005**



Filename: LMA0015  
Subfile: 0001

Type: 80 deg C BB

WN	INT	WN	INT
748.245	55958.2	929.521	94180.2
752.102	58167.9	933.378	94143.4
755.959	60081	937.234	94142.9
759.816	61747.3	941.091	94156.1
763.672	63129.9	944.948	94086.6
767.529	64238.4	948.805	93967.3
771.386	65472	952.662	93661.1
775.243	66742.5	956.519	93357.9
779.1	67879.4	960.376	93098
782.957	68668.9	964.233	92698.7
786.814	68941.6	968.09	92130.2
790.671	68612.2	971.947	91678.5
794.528	67847.3	975.804	91058.9
798.385	67030.9	979.661	90476.7
802.242	67219.4	983.518	89812.9
806.099	68009.6	987.375	89026.2
809.956	69519.1	991.232	88127.3
813.813	71286.3	995.088	87066
817.669	72758.9	998.945	85673.8
821.526	74011.7	1002.8	83820.7
825.383	76216.3	1006.65	81776.9
829.24	78757.5	1010.51	79426.2
833.097	80997.8	1014.37	77030.3
836.954	82955.5	1018.23	75098.2
840.811	84314.3	1022.08	73785.2
844.668	85583.2	1025.94	72955.2
848.525	86404.8	1029.8	72387.1
852.382	86772.3	1033.65	71731.7
856.239	87121.8	1037.51	71094.9
860.096	87323.1	1041.37	70650.6
863.953	87737	1045.22	70147.2
867.81	88292.8	1049.08	69675.7
871.667	88883.2	1052.94	69153.9
875.524	89751.5	1056.8	68769.2
879.38	90524.8	1060.65	68019
883.237	91318.3	1064.51	67161.2
887.094	92162.4	1068.37	66140.4
890.951	92783.6	1072.22	64911
894.808	93177.5	1076.08	63528.7
898.665	93566.2	1079.94	62494.3
902.522	93854.6	1083.79	61204.9
906.379	93973.5	1087.65	60058.8
910.236	94180.3	1091.51	58942.3
914.093	94339.5	1095.36	58032
917.95	94268.9	1099.22	57243
921.807	94406.2	1103.08	56730.5
925.664	94260.7	1106.94	56479



Filename: LMA0015  
Subfile: 0001

Type: 80 deg C BB

WN	INT	WN	INT
1110.79	56180.7	1292.07	37541.6
1114.65	56243.4	1295.93	36774.1
1118.51	56319.1	1299.78	36453.4
1122.36	56432.2	1303.64	36064.2
1126.22	56825.2	1307.5	34826.1
1130.08	57183.9	1311.35	33223.4
1133.93	57324.5	1315.21	31915.4
1137.79	57584.9	1319.07	30366.5
1141.65	57704.8	1322.92	33014.2
1145.5	57597.3	1326.78	32488.5
1149.36	57306	1330.64	32261.3
1153.22	56912.3	1334.49	31300.2
1157.08	56488.7	1338.35	24768.9
1160.93	55947.9	1342.21	28371.4
1164.79	55588.9	1346.07	29541.8
1168.65	54882	1349.92	28585.7
1172.5	54171.6	1353.78	27980.2
1176.36	53498.9	1357.64	27369
1180.22	53127.5	1361.49	22060.6
1184.07	52728.3	1365.35	25606.2
1187.93	52116.7	1369.21	23994.9
1191.79	51803.6	1373.06	22324
1195.64	51330.2	1376.92	23431.3
1199.5	50686.4	1380.78	23291.7
1203.36	50252.5	1384.63	24626.7
1207.22	49790.6	1388.49	20009.1
1211.07	48947.5	1392.35	21187.5
1214.93	48634.5	1396.21	17604.7
1218.79	47878.4	1400.06	18659.3
1222.64	47427.9	1403.92	20278
1226.5	46554.8	1407.78	22044
1230.36	46218	1411.63	19501.6
1234.21	45816.7	1415.49	20389.4
1238.07	45006	1419.35	14186.2
1241.93	44070	1423.2	16989.1
1245.79	43441.7	1427.06	19924.3
1249.64	42666.6	1430.92	16681.4
1253.5	40911.8	1434.77	16542.7
1257.36	38746.1	1438.63	17496.5
1261.21	36331.7	1442.49	20145.5
1265.07	37245.6	1446.35	18548
1268.93	37991.4	1450.2	17557.1
1272.78	38489.7		
1276.64	39303.9		
1280.5	38817.8		
1284.35	38499.5		
1288.21	36859.4		

Filename: LMA0005  
Subfile: 0001

Type: OFF STACK

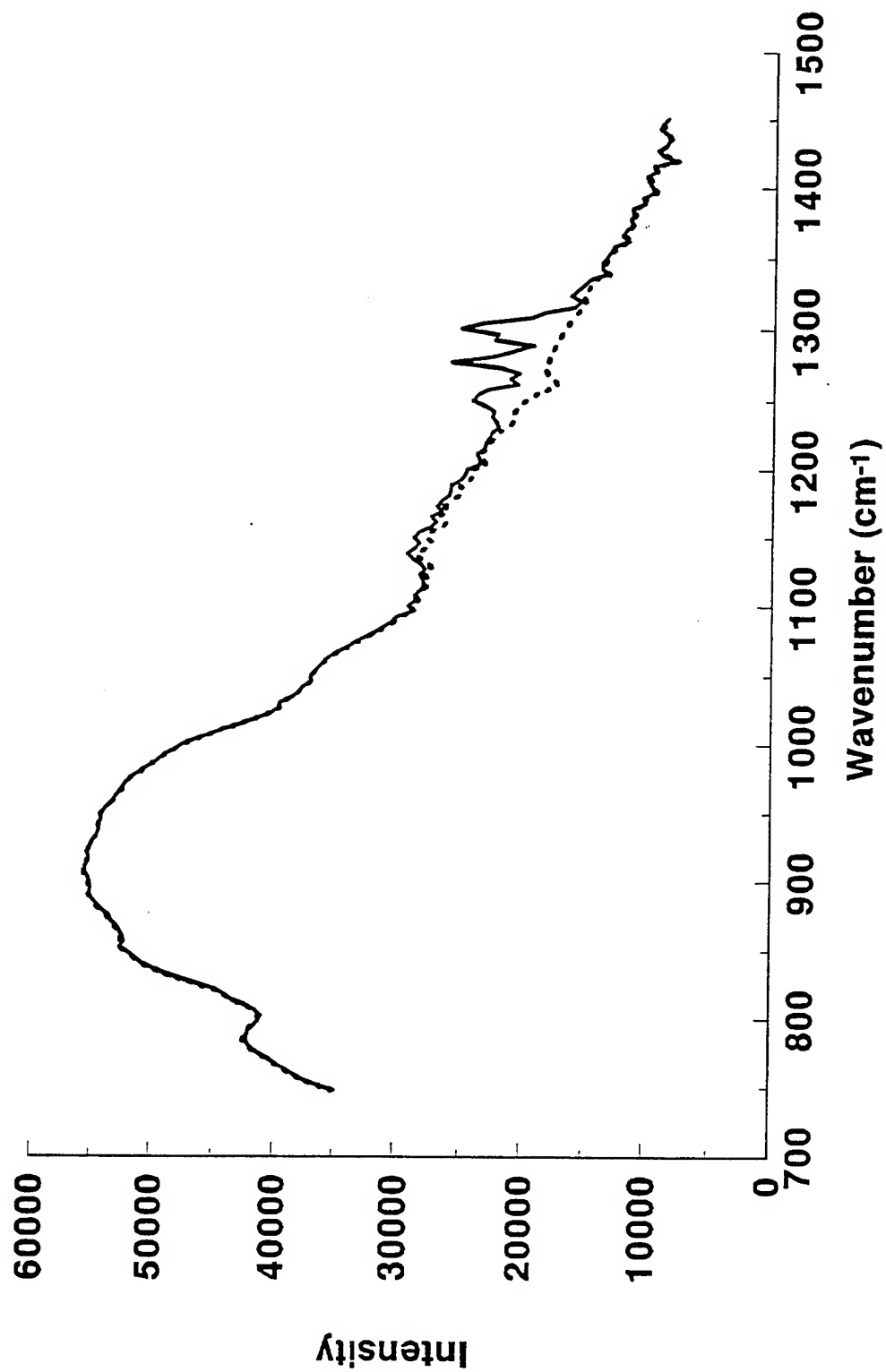
WN	INT	WN	INT
748.245	35069	929.521	54863.7
752.102	36530.4	933.378	54545.5
755.959	37662.9	937.234	54351.6
759.816	38501.3	941.091	54373.4
763.672	39209.5	944.948	54192.8
767.529	39948.4	948.805	54154.8
771.386	40588.9	952.662	53772.3
775.243	41483	956.519	53353.4
779.1	42035.6	960.376	52977.3
782.957	42407	964.233	52590.1
786.814	42386.1	968.09	52298.5
790.671	42124.3	971.947	52033
794.528	41813.9	975.804	51568.1
798.385	41428.6	979.661	50829.8
802.242	41209.6	983.518	50173
806.099	41530.3	987.375	49463.2
809.956	42364.2	991.232	48944.5
813.813	43477	995.088	48139.8
817.669	44074.7	998.945	47501.4
821.526	44891	1002.8	46423.3
825.383	46254.6	1006.65	45179.8
829.24	47647.8	1010.51	44163.5
833.097	48925	1014.37	42724.4
836.954	50007.7	1018.23	41457.4
840.811	50958.1	1022.08	40298
844.668	51378.9	1025.94	39670.5
848.525	52077.7	1029.8	39537.8
852.382	52615.1	1033.65	38576.1
856.239	52427.1	1037.51	38038.9
860.096	52467.3	1041.37	37629.3
863.953	52721.8	1045.22	36910.3
867.81	52997.4	1049.08	37016.6
871.667	53499.3	1052.94	36653.3
875.524	53673.7	1056.8	36202.6
879.38	54249.6	1060.65	35736
883.237	54650.3	1064.51	35081.6
887.094	55048.3	1068.37	34145.6
890.951	55234.6	1072.22	33448.1
894.808	55219.7	1076.08	32562.1
898.665	55233.8	1079.94	31579.9
902.522	55378.9	1083.79	30892.4
906.379	55587.7	1087.65	30147.4
910.236	55612.4	1091.51	29798
914.093	55360.1	1095.36	28652.8
917.95	55267.1	1099.22	28993.4
921.807	55373.2	1103.08	28401.2
925.664	55080.2	1106.94	28453.6

Filename: LMA0005  
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT
1110.79	28038.8	1292.07	17313.8
1114.65	27634	1295.93	17061.1
1118.51	27742	1299.78	16687.8
1122.36	27868.1	1303.64	16489.5
1126.22	27282.7	1307.5	16239.7
1130.08	27564.4	1311.35	15781.4
1133.93	28251.5	1315.21	15513.6
1137.79	28539.4	1319.07	15176.1
1141.65	27672.4	1322.92	15263.4
1145.5	27321.6	1326.78	14985.2
1149.36	27836.5	1330.64	14788.4
1153.22	27483.4	1334.49	14396.3
1157.08	26577.1	1338.35	13214.5
1160.93	26256.5	1342.21	13625.9
1164.79	26789.3	1346.07	13500.5
1168.65	26089.2	1349.92	13213.2
1172.5	26348.5	1353.78	12910.6
1176.36	25883.3	1357.64	12622.4
1180.22	25233.2	1361.49	11428.6
1184.07	25034.7	1365.35	12005.7
1187.93	25182.7	1369.21	11662.5
1191.79	24457.8	1373.06	11154.8
1195.64	24172.2	1376.92	11352.8
1199.5	24194.1	1380.78	11099.7
1203.36	23261.5	1384.63	11173.5
1207.22	23373.4	1388.49	10244.7
1211.07	23640.1	1392.35	10273.9
1214.93	23072	1396.21	9464.67
1218.79	22990.5	1400.06	9574.49
1222.64	22505.1	1403.92	9858.07
1226.5	22196.7	1407.78	10021.1
1230.36	21428.3	1411.63	9461.36
1234.21	21017.1	1415.49	9529.14
1238.07	21091.6	1419.35	7829.65
1241.93	20807	1423.2	8814.31
1245.79	20505.7	1427.06	9243.14
1249.64	19846.7	1430.92	8577.61
1253.5	19154.1	1434.77	8366.46
1257.36	18149.2	1438.63	8519.46
1261.21	17378	1442.49	9056.56
1265.07	17602.2	1446.35	8875.78
1268.93	18176.8	1450.2	8496.96
1272.78	18324.8		
1276.64	18068.7		
1280.5	18025.5		
1284.35	17836.1		
1288.21	17551.5		

**ON and OFF STACK Response  
LMA0005**



Filename: LMA0005  
Subfile: 1180

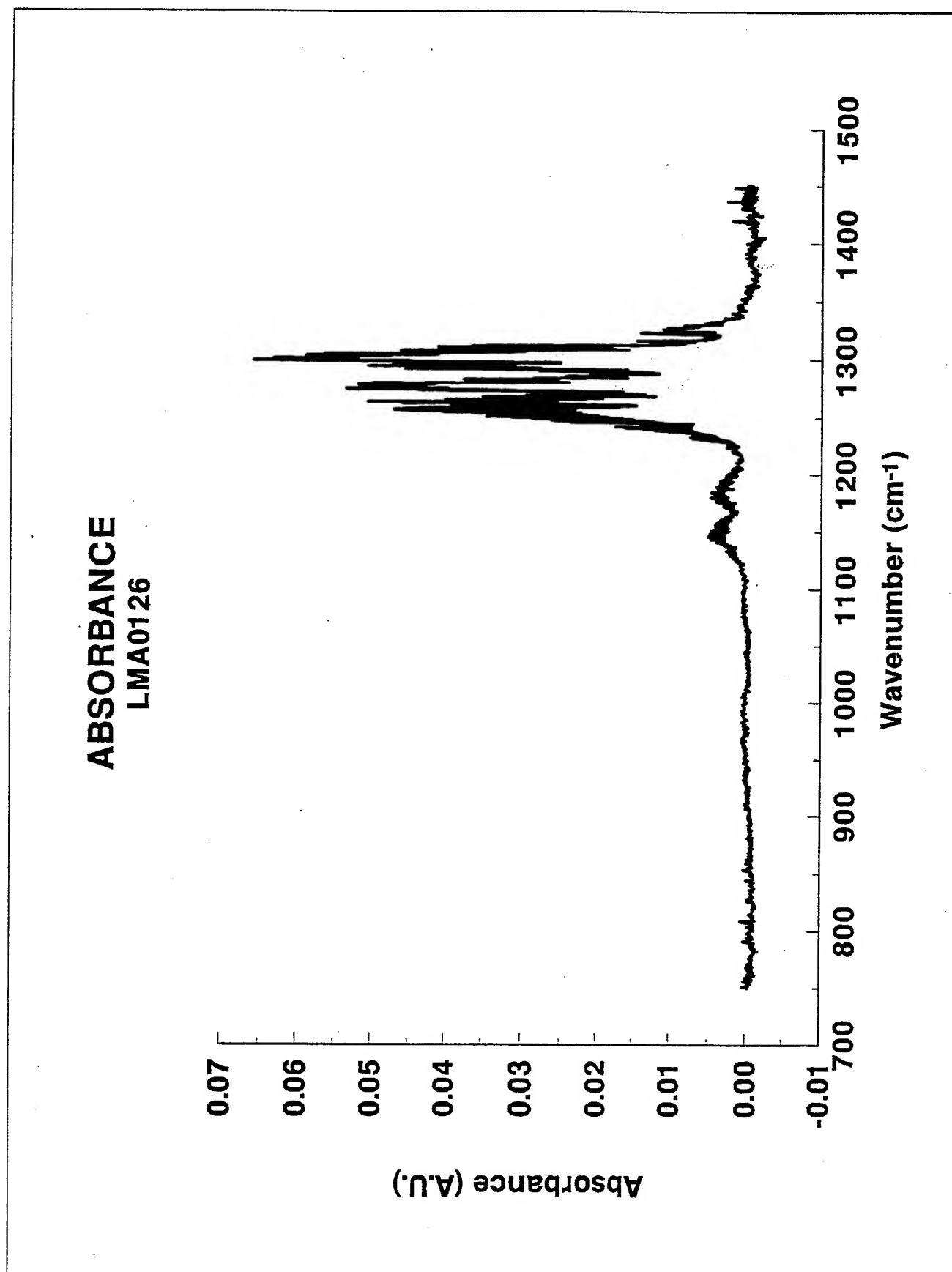
Type: ON STACK

WN	INT	WN	INT
748.245	34901.9	929.521	54908.2
752.102	36358.6	933.378	54572.9
755.959	37505.1	937.234	54342.4
759.816	38314.3	941.091	54362.9
763.672	39006.1	944.948	54175.9
767.529	39773.9	948.805	54190.9
771.386	40443.6	952.662	53811.9
775.243	41264.8	956.519	53394.1
779.1	41831.2	960.376	53062.7
782.957	42164	964.233	52699.2
786.814	42179.2	968.09	52394.2
790.671	42009.4	971.947	52057.9
794.528	41627	975.804	51611.9
798.385	41251.5	979.661	50875.4
802.242	41021.2	983.518	50257.3
806.099	41406.1	987.375	49543
809.956	42206.3	991.232	49033
813.813	43317.5	995.088	48232.6
817.669	43904	998.945	47563.2
821.526	44678.6	1002.8	46518.8
825.383	46081	1006.65	45284.8
829.24	47461.6	1010.51	44236.2
833.097	48734.5	1014.37	42779.2
836.954	49826.4	1018.23	41497.2
840.811	50769.7	1022.08	40328.2
844.668	51240.6	1025.94	39717.8
848.525	51855.6	1029.8	39587.5
852.382	52487.4	1033.65	38681.1
856.239	52249	1037.51	38099.9
860.096	52330.5	1041.37	37688.5
863.953	52579.7	1045.22	37037.9
867.81	52839.7	1049.08	37057.7
871.667	53338.1	1052.94	36701.4
875.524	53495.3	1056.8	36253.6
879.38	54112.6	1060.65	35801.4
883.237	54537	1064.51	35196.7
887.094	54925.3	1068.37	34302.7
890.951	55146.4	1072.22	33576.9
894.808	55105.5	1076.08	32741.4
898.665	55177.5	1079.94	31784.7
902.522	55257	1083.79	31103.1
906.379	55526	1087.65	30378.7
910.236	55554	1091.51	29996.8
914.093	55291.1	1095.36	28910.4
917.95	55227.2	1099.22	29125.6
921.807	55353.9	1103.08	28641.6
925.664	55062.1	1106.94	28640.4

Filename: LMA0005  
Subfile: 1180

Type: ON STACK

WN	INT	WN	INT
1110.79	28232.5	1292.07	22546.6
1114.65	27946.9	1295.93	22324.9
1118.51	28043.5	1299.78	25164.6
1122.36	28219.4	1303.64	23602.7
1126.22	27872.9	1307.5	19490.8
1130.08	28194.3	1311.35	18411.1
1133.93	28814.2	1315.21	16018.7
1137.79	29209.1	1319.07	15531.3
1141.65	28643.6	1322.92	16289.3
1145.5	28347.5	1326.78	15834
1149.36	28711.4	1330.64	15261.8
1153.22	28362	1334.49	14741.2
1157.08	27424	1338.35	13355.5
1160.93	27075.2	1342.21	13765.6
1164.79	27364.4	1346.07	13775.9
1168.65	26629.8	1349.92	13424.2
1172.5	26918	1353.78	13066.9
1176.36	26613.3	1357.64	12801.8
1180.22	26047.1	1361.49	11619.5
1184.07	25922.7	1365.35	12122.7
1187.93	25888.2	1369.21	11814.3
1191.79	25170.6	1373.06	11288.6
1195.64	24821.2	1376.92	11435.4
1199.5	24697.4	1380.78	11230.4
1203.36	23711.9	1384.63	11302.4
1207.22	23701.6	1388.49	10341.4
1211.07	23897.3	1392.35	10456.8
1214.93	23327.1	1396.21	9681.76
1218.79	23229.7	1400.06	9749.14
1222.64	22942.7	1403.92	10013.4
1226.5	22707.4	1407.78	10156.5
1230.36	22211.3	1411.63	9550.95
1234.21	22391.2	1415.49	9632.47
1238.07	22729.5	1419.35	7966.95
1241.93	22597.7	1423.2	8945.04
1245.79	23263.2	1427.06	9330.94
1249.64	24245.4	1430.92	8688.81
1253.5	23918.2	1434.77	8470.16
1257.36	23097.7	1438.63	8641.97
1261.21	20607.3	1442.49	9189.7
1265.07	21213.9	1446.35	9001.4
1268.93	20470.9	1450.2	8601.44
1272.78	22128.1		
1276.64	25922.3		
1280.5	22756.5		
1284.35	20960.9		
1288.21	19342.4		



Filename: LMA0126

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
750.173	-0.000373	772.83	-0.0007795	795.486	-0.000581
750.655	-0.0003671	773.312	-0.0008041	795.969	-0.0006601
751.137	0.0003241	773.794	-0.0007734	796.451	-0.0007562
751.619	-0.000412	774.276	-0.0006652	796.933	-0.0006858
752.101	-0.0001865	774.758	-0.0008855	797.415	-0.0003077
752.583	-0.0002437	775.24	-0.0006751	797.897	-0.0004545
753.066	-0.000513	775.722	-0.0005811	798.379	-0.0004879
753.548	-0.0006467	776.204	-0.0006477	798.861	-0.0005345
754.03	-0.0004085	776.686	-0.0006354	799.343	-0.0005908
754.512	-0.0002269	777.168	-0.0008004	799.825	-0.0008602
754.994	-0.0003641	777.65	-0.0008921	800.307	-0.0011039
755.476	-0.0005831	778.132	-0.0009407	800.789	-0.0011018
755.958	0.0001519	778.614	-0.0008173	801.271	-0.0010361
756.44	-0.0008428	779.097	-0.0009972	801.753	-0.0008155
756.922	-0.0005444	779.579	-0.0010355	802.235	-0.0009511
757.404	5.28E-06	780.061	-0.0012012	802.717	-0.0007268
757.886	-0.0009076	780.543	-0.0011872	803.199	-0.0003222
758.368	-0.0006294	781.025	-0.001059	803.681	-0.0006045
758.85	-0.0000267	781.507	-0.0010628	804.163	-0.0011139
759.332	-0.0007458	781.989	-0.0015984	804.646	-0.0011175
759.814	-0.00067	782.471	-0.0010524	805.128	-0.0007977
760.296	-0.0005566	782.953	-0.0013588	805.61	-0.0008774
760.778	-0.0011381	783.435	-0.0009516	806.092	-0.0004059
761.26	-0.0012358	783.917	-0.0008803	806.574	-0.0006926
761.743	-0.0003737	784.399	-0.0012924	807.056	-0.0008112
762.225	-0.0010392	784.881	-0.0009938	807.538	-0.0005012
762.707	-0.0007976	785.363	-0.0009707	808.02	0.0005941
763.189	-0.0005746	785.845	-0.0008574	808.502	-0.0012027
763.671	-0.0011047	786.327	-0.0007419	808.984	-0.0010544
764.153	-0.0009713	786.809	-0.0007801	809.466	-0.0009907
764.635	-0.000444	787.292	-0.0011038	809.948	-0.0010262
765.117	-0.0008101	787.774	-0.0007087	810.43	-0.0010132
765.599	-0.0008765	788.256	-0.0010968	810.912	-0.0007974
766.081	-0.0003556	788.738	-0.0011358	811.394	-0.000974
766.563	-0.0006588	789.22	-0.0009597	811.876	-0.0011014
767.045	-0.0007438	789.702	-0.0009424	812.358	-0.0009391
767.527	-0.0002698	790.184	-0.0007375	812.84	-0.0010925
768.009	-0.0005572	790.666	0.0002108	813.322	-0.0008763
768.491	-0.0009838	791.148	-0.0006737	813.805	-0.0005899
768.973	-0.0007339	791.63	-0.0001512	814.287	-0.0007302
769.455	-0.0007527	792.112	-0.0007329	814.769	-0.0009013
769.937	-0.0003467	792.594	-0.0010037	815.251	-0.0008961
770.42	-0.0004954	793.076	-0.0007878	815.733	-0.0008809
770.902	-0.0004552	793.558	-0.0003918	816.215	-0.0009198
771.384	-0.0004028	794.04	-0.0002539	816.697	-0.0009522
771.866	-0.000896	794.522	-0.0007609	817.179	-0.0010081
772.348	-0.0007656	795.004	-0.0009536	817.661	-0.0010093



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Type: Absorbance

WN	ABS
818.143	-0.0009078
818.625	-0.0010767
819.107	-0.001184
819.589	-0.0012421
820.071	-0.0012445
820.553	-0.0010774
821.035	-0.0012538
821.517	-0.0010697
822	-0.0011681
822.482	-0.0011794
822.964	-0.0010875
823.446	-0.0011618
823.928	-0.0010663
824.41	-0.0011356
824.892	-0.0008852
825.374	-0.0007146
825.856	-0.0003103
826.338	-0.0008528
826.82	-0.0007854
827.302	-0.0007096
827.784	-0.0003615
828.266	-0.0008954
828.748	-0.0007893
829.23	-0.0008626
829.712	-0.0007513
830.194	-0.0010213
830.677	-0.0008483
831.159	-0.0008255
831.641	-0.0007645
832.123	-0.0007821
832.605	-0.0006886
833.087	-0.0008169
833.569	-0.0007619
834.051	-0.000973
834.533	-0.0010114
835.015	-0.0008862
835.497	-0.000615
835.979	-0.0011412
836.461	-0.0011043
836.943	-0.0010656
837.425	-0.0011859
837.907	-0.0010439
838.389	-0.0010356
838.871	-0.0008645
839.353	-0.0008276
839.836	-0.0005828
840.318	-0.0007981

WN	ABS
840.8	-0.0008515
841.282	-0.0008499
841.764	-0.0009412
842.246	-0.0011041
842.728	-0.000971
843.21	-0.0007644
843.692	-0.0001684
844.174	-0.0009085
844.656	-0.0009017
845.138	-0.0010031
845.62	-0.0009907
846.102	-0.0009835
846.584	-0.0010751
847.066	-0.0009562
847.548	-0.0007415
848.03	-0.000857
848.513	-0.0008875
848.995	-0.0009683
849.477	-0.0006121
849.959	-0.0009277
850.441	-0.0008721
850.923	-0.0006657
851.405	-0.0006775
851.887	-0.0005864
852.369	-0.0001631
852.851	0.0001717
853.333	-0.0004578
853.815	-0.0005523
854.297	-0.000531
854.779	-0.0003283
855.261	-0.000912
855.743	-0.0007294
856.225	-0.0007921
856.707	-0.0007362
857.19	-0.0006781
857.672	-0.0006796
858.154	-0.0007033
858.636	-0.0001134
859.118	-0.0007265
859.6	-0.0006328
860.082	-0.0006602
860.564	-0.0006915
861.046	-0.0007142
861.528	-0.0008096
862.01	-0.0002174
862.492	-0.0008455
862.974	-0.0007401

WN	ABS
863.456	-0.0008143
863.938	-0.0007325
864.42	-0.0007031
864.902	-0.0004687
865.384	-0.0006349
865.867	-0.0008925
866.349	-0.0007859
866.831	-0.0007781
867.313	-0.0006787
867.795	-0.0005534
868.277	-0.0006812
868.759	-0.0006289
869.241	-0.0007316
869.723	-0.0006993
870.205	-0.0006514
870.687	-0.0006754
871.169	-0.0006638
871.651	-0.0009702
872.133	-0.0007454
872.615	-0.0005674
873.097	-0.0006778
873.579	-0.0007609
874.061	-0.0007629
874.544	-0.0007183
875.026	-0.0008425
875.508	-0.0006566
875.99	-0.0008141
876.472	-0.0006924
876.954	-0.0008455
877.436	-0.0007747
877.918	-0.0005802
878.4	-0.0004874
878.882	-0.0008342
879.364	-0.0008394
879.846	-0.0004857
880.328	-0.0002641
880.81	-0.000548
881.292	-0.0008608
881.774	-0.0005904
882.256	-0.0006165
882.738	-0.000496
883.221	-0.0005248
883.703	-0.0005195
884.185	-0.000757
884.667	-0.0006262
885.149	-0.0005644
885.631	-0.0005258

WN	ABS	WN	ABS	WN	ABS
886.113	-0.0006298	908.769	-0.0000507	931.426	0.0001828
886.595	-0.0006164	909.252	-0.000283	931.908	0.0002205
887.077	-0.0006485	909.734	-0.0001631	932.39	0.0000142
887.559	-0.0008189	910.216	-0.000199	932.872	-0.000067
888.041	-0.0005119	910.698	0.0000659	933.354	5.64E-06
888.523	-0.0005446	911.18	-0.0003325	933.836	0.0000648
889.005	-0.0006584	911.662	-0.000333	934.318	0.0000449
889.487	-0.0005312	912.144	-0.0003058	934.801	-0.0000995
889.969	-0.0004596	912.626	-0.0002888	935.283	-0.0001537
890.451	-0.0006103	913.108	-0.0003276	935.765	-0.0001829
890.933	-0.0006056	913.59	-0.0003006	936.247	0.0002244
891.415	-0.0006149	914.072	-0.000227	936.729	-0.0002316
891.898	-0.0004132	914.554	-0.0002527	937.211	-0.0000534
892.38	-0.0005979	915.036	-0.0002134	937.693	-0.0001382
892.862	-0.0007119	915.518	-0.0001483	938.175	-0.0000376
893.344	-0.0007582	916	-0.0003353	938.657	-0.0002605
893.826	-0.0007264	916.482	-0.0003064	939.139	0.0000946
894.308	-0.0006844	916.964	-0.0002188	939.621	-0.000091
894.79	-0.0006167	917.446	-0.0002356	940.103	0.000034
895.272	-0.000712	917.929	-0.0002695	940.585	-0.0002376
895.754	-0.0006772	918.411	-0.0004103	941.067	-0.0004253
896.236	-0.0005474	918.893	-0.0002417	941.549	-0.0002213
896.718	-0.0006921	919.375	-0.0004025	942.031	-0.0001473
897.2	-0.0004224	919.857	-0.0003288	942.513	-0.0003458
897.682	-0.0004723	920.339	-0.0003177	942.995	-0.000028
898.164	-0.0006041	920.821	-0.0001024	943.478	-0.0001734
898.646	-0.0003785	921.303	-0.0000509	943.96	-0.0001769
899.128	-0.0005583	921.785	-0.0003468	944.442	-0.0002313
899.61	-0.0004481	922.267	-0.0003903	944.924	-0.0001567
900.092	-0.0004127	922.749	-0.0004037	945.406	0.0000769
900.575	-0.000493	923.231	-0.0003573	945.888	-0.0001881
901.057	-0.0004905	923.713	-0.0002828	946.37	0.0001507
901.539	-0.0005224	924.195	-0.0002071	946.852	-0.0001095
902.021	-0.0005588	924.677	-0.0001937	947.334	0.0002225
902.503	-0.0005647	925.159	-0.000546	947.816	-1.55E-06
902.985	-0.0004473	925.641	-0.0002513	948.298	-0.0001331
903.467	-0.0005844	926.124	-0.0000905	948.78	-0.0002362
903.949	-0.0004752	926.606	-0.0000929	949.262	-0.0000716
904.431	-0.0004754	927.088	-0.0001445	949.744	-0.0001467
904.913	-0.0004836	927.57	-0.0000941	950.226	0.0001564
905.395	-0.000588	928.052	-0.0001083	950.708	0.0001442
905.877	-0.0003092	928.534	-9.21E-06	951.19	-0.0000234
906.359	-0.0000121	929.016	-0.0001549	951.672	0.0001719
906.841	-0.0001614	929.498	-0.0001248	952.155	0.0001713
907.323	-0.0003785	929.98	-0.0000208	952.637	0.0001115
907.805	-0.000121	930.462	0.0000384	953.119	-0.000007
908.287	-0.0003423	930.944	0.0001533	953.601	-0.000153

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WN	ABS	WN	ABS	WN	ABS
954.083	0.0000831	976.739	0.0002672	999.396	0.0001808
954.565	-0.0000269	977.221	-0.0001501	999.878	0.0002313
955.047	0.0000893	977.703	-0.0002663	1000.36	-0.0000966
955.529	-0.0000998	978.186	0.0001566	1000.84	0.0000705
956.011	-0.0000716	978.668	0.0000581	1001.32	0.0001371
956.493	0.0001042	979.15	0.0002525	1001.8	0.0001147
956.975	0.0002136	979.632	4.40E-06	1002.28	0.0001398
957.457	0.0001165	980.114	0.0002743	1002.77	0.0002027
957.939	0.0001368	980.596	0.0002436	1003.25	0.0001701
958.421	0.0001817	981.078	0.0003205	1003.73	-0.0000139
958.903	0.0000975	981.56	0.0000784	1004.21	0.0001555
959.385	0.0001805	982.042	0.0001324	1004.69	0.0001109
959.867	-0.0000932	982.524	0.000419	1005.18	0.0004103
960.349	0.0002232	983.006	0.0002951	1005.66	0.0002535
960.832	0.0003385	983.488	0.0001896	1006.14	0.0002386
961.314	0.0002614	983.97	0.000042	1006.62	0.0002115
961.796	0.0001063	984.452	-0.0001116	1007.1	0.0000506
962.278	0.0003582	984.934	0.0001357	1007.59	0.0002874
962.76	0.000227	985.416	0.0001094	1008.07	0.0000924
963.242	0.0001954	985.898	0.0001266	1008.55	0.0000636
963.724	0.000362	986.38	0.0002315	1009.03	0.000011
964.206	0.0002844	986.863	0.0002718	1009.51	-0.0000376
964.688	0.0003348	987.345	0.0002463	1010	-0.0003126
965.17	0.0004538	987.827	0.0002557	1010.48	-0.0002894
965.652	0.0003718	988.309	0.0002653	1010.96	-0.0000752
966.134	0.0000487	988.791	0.0002402	1011.44	0.0000228
966.616	0.0004632	989.273	0.0004169	1011.92	-0.0001449
967.098	0.00028	989.755	0.0002337	1012.41	0.0000215
967.58	0.0004646	990.237	0.00009	1012.89	-0.0000929
968.062	0.0004789	990.719	0.0002136	1013.37	-3.72E-06
968.544	0.0004519	991.201	0.0003677	1013.85	-0.0000585
969.026	0.0001502	991.683	0.000436	1014.34	-0.0000886
969.509	0.0002327	992.165	0.0003662	1014.82	-0.0003394
969.991	0.0003245	992.647	0.000482	1015.3	-0.0002551
970.473	0.0001053	993.129	0.0003327	1015.78	-0.0001945
970.955	0.000252	993.611	0.0002423	1016.26	-0.0003862
971.437	-0.0002101	994.093	0.0001751	1016.75	-0.000242
971.919	-0.0002065	994.575	0.0001458	1017.23	-0.0002086
972.401	-0.0000319	995.057	0.0002546	1017.71	-0.0004405
972.883	0.0002088	995.54	0.0001262	1018.19	-0.000423
973.365	-0.0001344	996.022	0.0001568	1018.67	-0.0001455
973.847	-0.0002798	996.504	0.0002469	1019.16	-0.0002369
974.329	-0.0001446	996.986	0.0002214	1019.64	-0.0003144
974.811	-0.0000251	997.468	0.000332	1020.12	-0.0001538
975.293	0.0001701	997.95	0.0003625	1020.6	-0.0002704
975.775	-0.0001574	998.432	0.0003127	1021.08	-0.0003662
976.257	-0.0000749	998.914	0.0000305	1021.57	-0.0002995

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WN	ABS	WN	ABS	WN	ABS
1022.05	-0.0003452	1044.71	0.0000311	1067.36	-0.0000584
1022.53	-0.0003019	1045.19	-0.0003183	1067.84	0.0001403
1023.01	-0.0002749	1045.67	-0.0000557	1068.33	0.0000803
1023.49	-0.0002806	1046.15	-0.0001934	1068.81	-0.0000589
1023.98	-0.0002955	1046.63	-0.0000683	1069.29	0.0001196
1024.46	-0.0003006	1047.12	-0.0001126	1069.77	0.0001525
1024.94	-0.0004406	1047.6	-0.000234	1070.25	0.0000553
1025.42	-0.0004176	1048.08	-0.000288	1070.74	0.000069
1025.91	-0.0002656	1048.56	-0.0001606	1071.22	0.0003261
1026.39	-0.0002432	1049.04	-0.0003516	1071.7	0.0001418
1026.87	-0.0003151	1049.53	-0.0003703	1072.18	0.0001143
1027.35	-0.0003597	1050.01	-0.0002188	1072.66	0.0000768
1027.83	-0.0003629	1050.49	-0.0001479	1073.15	0.0001237
1028.32	-0.000376	1050.97	-0.000298	1073.63	0.0002988
1028.8	-0.000337	1051.45	-0.0003775	1074.11	-0.0000355
1029.28	-0.0002983	1051.94	-0.0002383	1074.59	-2.58E-06
1029.76	-0.0003318	1052.42	-0.000086	1075.07	0.0001131
1030.24	-0.0001896	1052.9	-0.0002432	1075.56	0.0005202
1030.73	-0.0004241	1053.38	-0.0002888	1076.04	0.0001897
1031.21	-0.0003506	1053.86	-0.0003563	1076.52	0.0004345
1031.69	-0.000156	1054.35	5.64E-06	1077	0.0002827
1032.17	-0.0001955	1054.83	-0.0001523	1077.48	0.0002929
1032.65	-0.0002406	1055.31	-0.0001911	1077.97	0.0003562
1033.14	-0.0001254	1055.79	-0.0003868	1078.45	0.0002148
1033.62	-0.0002839	1056.27	-0.0002588	1078.93	0.0003747
1034.1	-0.0000836	1056.76	-0.0001637	1079.41	0.0005076
1034.58	-0.0000694	1057.24	-0.0002081	1079.9	0.0002336
1035.06	-0.0002025	1057.72	-0.0002833	1080.38	0.0003812
1035.55	-0.0001493	1058.2	-0.0002352	1080.86	0.0004545
1036.03	-0.0001999	1058.68	-0.0000449	1081.34	0.0000228
1036.51	-0.0003457	1059.17	-0.0003012	1081.82	0.0003991
1036.99	-0.0002851	1059.65	-0.0002103	1082.31	0.0002716
1037.47	-0.0002319	1060.13	-0.0001277	1082.79	0.0004991
1037.96	-0.0002188	1060.61	-0.0003186	1083.27	0.0003384
1038.44	-0.0001146	1061.1	-0.0003131	1083.75	0.0003953
1038.92	-0.0001922	1061.58	-0.0003487	1084.23	0.0004602
1039.4	-3.31E-06	1062.06	-0.0001501	1084.72	0.0004783
1039.88	-0.0002097	1062.54	-0.0005073	1085.2	0.000115
1040.37	-0.0002227	1063.02	-0.0003896	1085.68	0.0000289
1040.85	-0.0001031	1063.51	-0.0002764	1086.16	0.0003816
1041.33	-0.0001882	1063.99	0.0000137	1086.64	0.0003335
1041.81	0.0000521	1064.47	-0.0002191	1087.13	0.0003404
1042.29	0.0000155	1064.95	-8.64E-06	1087.61	0.0004436
1042.78	-0.0000705	1065.43	0.0000266	1088.09	0.0003279
1043.26	-0.0002438	1065.92	0.0000115	1088.57	0.000425
1043.74	0.0001775	1066.4	-0.000122	1089.05	0.0004396
1044.22	0.0001749	1066.88	-0.0000835	1089.54	0.0004816

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WN	ABS
1090.02	0.0003111
1090.5	0.000391
1090.98	0.0002752
1091.46	0.0001846
1091.95	0.0003207
1092.43	0.0004462
1092.91	0.0003992
1093.39	0.000341
1093.87	0.0004014
1094.36	0.0004574
1094.84	0.0005303
1095.32	0.0003999
1095.8	0.0005084
1096.29	0.0004148
1096.77	0.0003317
1097.25	0.0005135
1097.73	0.0004339
1098.21	0.0004577
1098.7	0.0003056
1099.18	0.0002295
1099.66	0.0004061
1100.14	0.0003339
1100.62	0.000336
1101.11	0.0001787
1101.59	0.0000828
1102.07	0.0001251
1102.55	0.0001634
1103.03	0.0002597
1103.52	0.0004465
1104	0.0003814
1104.48	0.0002532
1104.96	0.0001263
1105.44	0.0002086
1105.93	0.0002179
1106.41	0.0000965
1106.89	0.0002489
1107.37	-0.0000574
1107.85	0.000288
1108.34	0.0002537
1108.82	0.0004412
1109.3	0.0004553
1109.78	0.0004859
1110.26	0.0003075
1110.75	0.0001861
1111.23	0.0001847
1111.71	0.0002166
1112.19	0.0003343

WN	ABS
1112.68	0.0005005
1113.16	0.0005869
1113.64	0.0006464
1114.12	0.000506
1114.6	0.0005753
1115.09	0.000633
1115.57	0.0006738
1116.05	0.0008194
1116.53	0.0005149
1117.01	0.0005282
1117.5	0.0006556
1117.98	0.0007326
1118.46	0.0007868
1118.94	0.0007794
1119.42	0.0008325
1119.91	0.0008704
1120.39	0.0007311
1120.87	0.0008034
1121.35	0.0004808
1121.83	0.0007516
1122.32	0.0010301
1122.8	0.001033
1123.28	0.0012349
1123.76	0.000931
1124.24	0.0014621
1124.73	0.0011584
1125.21	0.0014138
1125.69	0.0014818
1126.17	0.0014248
1126.65	0.0018721
1127.14	0.001375
1127.62	0.001642
1128.1	0.0019089
1128.58	0.0015807
1129.06	0.002238
1129.55	0.0014909
1130.03	0.0016834
1130.51	0.0023241
1130.99	0.0015275
1131.48	0.0023658
1131.96	0.0019072
1132.44	0.0018758
1132.92	0.0026318
1133.4	0.0016925
1133.89	0.0023621
1134.37	0.0023409
1134.85	0.0018966

WN	ABS
1135.33	0.0024968
1135.81	0.0014632
1136.3	0.0022996
1136.78	0.0028917
1137.26	0.0021804
1137.74	0.0025374
1138.22	0.0030956
1138.71	0.0025963
1139.19	0.0035129
1139.67	0.0033289
1140.15	0.0031245
1140.63	0.0040451
1141.12	0.0029223
1141.6	0.0038284
1142.08	0.0040523
1142.56	0.0029108
1143.04	0.0047813
1143.53	0.0033003
1144.01	0.0039492
1144.49	0.0046963
1144.97	0.0029161
1145.45	0.0050762
1145.94	0.0034391
1146.42	0.0038462
1146.9	0.0048714
1147.38	0.0029031
1147.87	0.0048655
1148.35	0.0033782
1148.83	0.0035502
1149.31	0.0036111
1149.79	0.0024796
1150.28	0.0046083
1150.76	0.0035075
1151.24	0.0034259
1151.72	0.0038969
1152.2	0.00254
1152.69	0.003497
1153.17	0.0031579
1153.65	0.0035735
1154.13	0.0041888
1154.61	0.0026319
1155.1	0.0041383
1155.58	0.0033157
1156.06	0.003345
1156.54	0.0040134
1157.02	0.0025305
1157.51	0.0038192

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WN	ABS	WN	ABS	WN	ABS
1157.99	0.0027014	1180.64	0.0027545	1203.3	0.0011175
1158.47	0.0028847	1181.13	0.0039592	1203.78	0.0019867
1158.95	0.0033883	1181.61	0.0037374	1204.27	0.0009696
1159.43	0.0021407	1182.09	0.0035752	1204.75	0.001917
1159.92	0.003542	1182.57	0.0043514	1205.23	0.0007263
1160.4	0.0026587	1183.06	0.0030986	1205.71	0.0016877
1160.88	0.002742	1183.54	0.0047215	1206.19	0.000953
1161.36	0.0028609	1184.02	0.0030752	1206.68	0.0013967
1161.84	0.0021017	1184.5	0.004549	1207.16	0.0011861
1162.33	0.0028707	1184.98	0.0030597	1207.64	0.0012091
1162.81	0.0018901	1185.47	0.003866	1208.12	0.0012877
1163.29	0.0024927	1185.95	0.0034373	1208.6	0.0012617
1163.77	0.0021009	1186.43	0.0032146	1209.09	0.0013754
1164.26	0.0018868	1186.91	0.0019382	1209.57	0.0011525
1164.74	0.0021544	1187.39	0.0025469	1210.05	0.0014279
1165.22	0.0013974	1187.88	0.0039309	1210.53	0.000994
1165.7	0.0017644	1188.36	0.0025905	1211.01	0.0011306
1166.18	0.0019144	1188.84	0.0040237	1211.5	0.0009146
1166.67	0.0014168	1189.32	0.0027111	1211.98	0.0009423
1167.15	0.0022433	1189.8	0.003774	1212.46	0.0006948
1167.63	0.0013524	1190.29	0.0028373	1212.94	0.0011296
1168.11	0.0021595	1190.77	0.0030736	1213.42	0.0006941
1168.59	0.0017193	1191.25	0.0030204	1213.91	0.0008901
1169.08	0.0018888	1191.73	0.0024559	1214.39	0.0008036
1169.56	0.002232	1192.21	0.0035899	1214.87	0.0009577
1170.04	0.0017945	1192.7	0.0020906	1215.35	0.0007343
1170.52	0.0027888	1193.18	0.0035437	1215.83	0.000832
1171	0.0018168	1193.66	0.0019442	1216.32	0.000844
1171.49	0.0030896	1194.14	0.0035543	1216.8	0.0008197
1171.97	0.0018974	1194.62	0.0022418	1217.28	0.0011659
1172.45	0.0031284	1195.11	0.0031347	1217.76	0.0010223
1172.93	0.0025375	1195.59	0.0024945	1218.25	0.0014204
1173.41	0.0027673	1196.07	0.0024643	1218.73	0.0010289
1173.9	0.0028034	1196.55	0.0026391	1219.21	0.0018784
1174.38	0.0016095	1197.03	0.0020062	1219.69	0.0012967
1174.86	0.0025961	1197.52	0.0027559	1220.17	0.0019993
1175.34	0.002218	1198	0.0015312	1220.66	0.0014643
1175.82	0.0040038	1198.48	0.0020889	1221.14	0.0015966
1176.31	0.002438	1198.96	0.0013727	1221.62	0.0015902
1176.79	0.0037591	1199.45	0.0027016	1222.1	0.001466
1177.27	0.0032537	1199.93	0.0014226	1222.58	0.0018588
1177.75	0.0033187	1200.41	0.002447	1223.07	0.0016
1178.23	0.0041706	1200.89	0.0016036	1223.55	0.0026548
1178.72	0.0026335	1201.37	0.0021004	1224.03	0.0016336
1179.2	0.0047263	1201.86	0.0017642	1224.51	0.0025123
1179.68	0.0025908	1202.34	0.0014009	1224.99	0.0012113
1180.16	0.0046703	1202.82	0.0019427	1225.48	0.0016799

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Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
1225.96	0.0022239	1248.61	0.028848	1271.27	0.0202254
1226.44	0.0026734	1249.1	0.0166929	1271.75	0.0170688
1226.92	0.0018031	1249.58	0.0313588	1272.24	0.0164951
1227.4	0.0021538	1250.06	0.0185226	1272.72	0.0294424
1227.89	0.002363	1250.54	0.0345773	1273.2	0.0359785
1228.37	0.0021207	1251.02	0.0198298	1273.68	0.0438662
1228.85	0.0034849	1251.51	0.0335814	1274.16	0.0423748
1229.33	0.0024911	1251.99	0.0213059	1274.65	0.053486
1229.81	0.0048788	1252.47	0.0342562	1275.13	0.0396851
1230.3	0.0031707	1252.95	0.0227233	1275.61	0.0517152
1230.78	0.0063936	1253.44	0.0360233	1276.09	0.0451939
1231.26	0.0037885	1253.92	0.022358	1276.57	0.0487332
1231.74	0.0072185	1254.4	0.0404141	1277.06	0.0475268
1232.22	0.0039777	1254.88	0.0232397	1277.54	0.0440184
1232.71	0.0074988	1255.36	0.0450442	1278.02	0.0518726
1233.19	0.0042954	1255.85	0.0241116	1278.5	0.0413671
1233.67	0.0073268	1256.33	0.0469839	1278.98	0.0500098
1234.15	0.004297	1256.81	0.0231605	1279.47	0.0362063
1234.64	0.0072893	1257.29	0.0457098	1279.95	0.0239632
1235.12	0.0050721	1257.77	0.0228585	1280.43	0.0285686
1235.6	0.0069189	1258.26	0.0435875	1280.91	0.0313497
1236.08	0.0063219	1258.74	0.0171853	1281.39	0.0324911
1236.56	0.0067441	1259.22	0.039402	1281.88	0.027956
1237.05	0.0079127	1259.7	0.0158461	1282.36	0.0374796
1237.53	0.0069535	1260.18	0.0147919	1282.84	0.0254293
1238.01	0.0104592	1260.67	0.0160312	1283.32	0.0287407
1238.49	0.0072979	1261.15	0.0296112	1283.8	0.0236161
1238.97	0.012302	1261.63	0.0219029	1284.29	0.0159231
1239.46	0.0074043	1262.11	0.0460808	1284.77	0.0221292
1239.94	0.0138487	1262.59	0.0256101	1285.25	0.0181846
1240.42	0.0077087	1263.08	0.0505303	1285.73	0.0243881
1240.9	0.0162085	1263.56	0.02553	1286.22	0.0167465
1241.38	0.0076982	1264.04	0.0280406	1286.7	0.0210859
1241.87	0.0175333	1264.52	0.0307304	1287.18	0.0124917
1242.35	0.0073726	1265	0.0400242	1287.66	0.0117895
1242.83	0.0112669	1265.49	0.021727	1288.14	0.0120713
1243.31	0.0081885	1265.97	0.0245002	1288.63	0.0126905
1243.79	0.0116313	1266.45	0.0192653	1289.11	0.0172821
1244.28	0.0072031	1266.93	0.0212301	1289.59	0.0223617
1244.76	0.0142803	1267.41	0.0350793	1290.07	0.0280383
1245.24	0.0111339	1267.9	0.0184862	1290.55	0.0159065
1245.72	0.0238327	1268.38	0.0122137	1291.04	0.0246708
1246.2	0.0122244	1268.86	0.0173385	1291.52	0.0455713
1246.69	0.0258235	1269.34	0.0295819	1292	0.0277689
1247.17	0.0134361	1269.83	0.0135523	1292.48	0.0357352
1247.65	0.0264271	1270.31	0.0160248	1292.96	0.0393189
1248.13	0.01518	1270.79	0.0196893	1293.45	0.0309225

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Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
1293.93	0.0505552	1316.58	0.0055824	1339.24	0.0020867
1294.41	0.0341293	1317.07	0.0058575	1339.72	0.0016596
1294.89	0.0472796	1317.55	0.0046455	1340.21	0.001374
1295.37	0.0469287	1318.03	0.0051268	1340.69	0.0013488
1295.86	0.0357053	1318.51	0.0042614	1341.17	0.0008742
1296.34	0.0358318	1318.99	0.0057234	1341.65	0.0003537
1296.82	0.0252565	1319.48	0.0038378	1342.13	0.0007012
1297.3	0.0375606	1319.96	0.0041074	1342.62	0.0011444
1297.78	0.0516299	1320.44	0.0037356	1343.1	0.0007835
1298.27	0.0448854	1320.92	0.00421	1343.58	0.0010033
1298.75	0.0657924	1321.41	0.0080603	1344.06	0.0013618
1299.23	0.0528317	1321.89	0.0098437	1344.54	0.0008712
1299.71	0.0523874	1322.37	0.0140284	1345.03	0.00067
1300.19	0.0631796	1322.85	0.0095057	1345.51	0.0014056
1300.68	0.0520315	1323.33	0.0044361	1345.99	0.0010931
1301.16	0.0585544	1323.82	0.0087692	1346.47	0.0009924
1301.64	0.0576431	1324.3	0.0104927	1346.95	0.0012219
1302.12	0.0475873	1324.78	0.0101946	1347.44	0.0007067
1302.6	0.0588454	1325.26	0.0110789	1347.92	0.0006454
1303.09	0.0552938	1325.74	0.0103359	1348.4	0.0006518
1303.57	0.0410185	1326.23	0.0091184	1348.88	0.0002731
1304.05	0.0564624	1326.71	0.0105353	1349.36	0.0003337
1304.53	0.0472572	1327.19	0.0070504	1349.85	0.0003701
1305.02	0.036738	1327.67	0.0065647	1350.33	0.0004724
1305.5	0.0323245	1328.15	0.0071689	1350.81	0.00017
1305.98	0.0302309	1328.64	0.0083617	1351.29	0.000385
1306.46	0.0297392	1329.12	0.0062713	1351.77	0.0008431
1306.94	0.0461976	1329.6	0.0047578	1352.26	0.0000546
1307.43	0.0276107	1330.08	0.0034887	1352.74	0.0003882
1307.91	0.0214997	1330.56	0.0057213	1353.22	0.0003965
1308.39	0.0158377	1331.05	0.0056054	1353.7	-0.0002383
1308.87	0.0233775	1331.53	0.0050551	1354.18	-0.0001022
1309.35	0.0363845	1332.01	0.0036054	1354.67	-0.0002617
1309.84	0.0410511	1332.49	0.0033702	1355.15	-0.0003823
1310.32	0.0247225	1332.97	0.0034144	1355.63	-0.0001069
1310.8	0.036439	1333.46	0.0031294	1356.11	0.0000707
1311.28	0.0326888	1333.94	0.0030362	1356.6	0.0002394
1311.76	0.0161933	1334.42	0.002764	1357.08	0.000047
1312.25	0.0120466	1334.9	0.0030405	1357.56	0.0003235
1312.73	0.0098644	1335.38	0.0018455	1358.04	0.000216
1313.21	0.0083164	1335.87	0.0011128	1358.52	-0.0004518
1313.69	0.0084241	1336.35	0.0011428	1359.01	-0.0002459
1314.17	0.0099673	1336.83	0.0017282	1359.49	0.0001934
1314.66	0.0069397	1337.31	0.0007479	1359.97	-0.0006187
1315.14	0.0087711	1337.8	0.0007831	1360.45	-0.0006002
1315.62	0.0145891	1338.28	0.0014174	1360.93	-0.0001067
1316.1	0.0076687	1338.76	0.0015822	1361.42	-0.000352



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WN	ABS	WN	ABS	WN	ABS
1361.9	-0.0010034	1384.55	-0.0003954	1407.21	-0.0005676
1362.38	-0.0005419	1385.04	-0.0006089	1407.69	-0.0009393
1362.86	0.0002081	1385.52	-0.0004959	1408.18	-0.0007676
1363.34	-0.0013201	1386	-0.0002811	1408.66	-0.0010432
1363.83	-0.0007476	1386.48	-0.000953	1409.14	-0.0008215
1364.31	-0.0003856	1386.96	-0.0008801	1409.62	-0.0008497
1364.79	-0.0009525	1387.45	0.0001998	1410.1	-0.0004408
1365.27	-0.0008182	1387.93	-0.0002465	1410.59	-0.0006923
1365.75	-0.0006431	1388.41	-0.0008911	1411.07	-0.0011585
1366.24	-0.0009307	1388.89	-0.0008186	1411.55	-0.0011447
1366.72	-0.0008613	1389.37	-0.0002389	1412.03	-0.0010188
1367.2	-0.0009408	1389.86	-0.0002958	1412.51	-0.000595
1367.68	-0.0012109	1390.34	0.0000415	1413	-0.0005883
1368.16	-0.0009926	1390.82	-0.0001545	1413.48	-0.0001475
1368.65	-0.000646	1391.3	0.0002706	1413.96	-0.0005586
1369.13	-0.0005151	1391.79	-0.0004059	1414.44	-0.0008901
1369.61	-0.0010918	1392.27	-0.0002378	1414.92	-0.0011325
1370.09	-0.000855	1392.75	-0.0002888	1415.41	-0.0009712
1370.57	-0.0010193	1393.23	-0.0004135	1415.89	-0.0011023
1371.06	-0.0012655	1393.71	-0.0007629	1416.37	-0.0005309
1371.54	-0.0009789	1394.2	2.53E-06	1416.85	-0.0005825
1372.02	-0.00113	1394.68	-0.0004183	1417.33	0.0002177
1372.5	-0.0013469	1395.16	-0.0008827	1417.82	-0.0001175
1372.99	-0.0012632	1395.64	-0.0010212	1418.3	-0.0012491
1373.47	-0.0015459	1396.12	-0.0000445	1418.78	0.0001085
1373.95	-0.0013049	1396.61	-0.0009578	1419.26	0.0019869
1374.43	-0.000728	1397.09	-0.000871	1419.74	0.0006863
1374.91	-0.0011883	1397.57	-0.0004806	1420.23	-0.0008772
1375.4	-0.0007239	1398.05	-0.0008837	1420.71	-0.0004347
1375.88	-0.000493	1398.53	-0.0011832	1421.19	9.47E-06
1376.36	-0.0008513	1399.02	-0.0014698	1421.67	-0.000539
1376.84	-0.0010983	1399.5	0.0001709	1422.15	-0.0003872
1377.32	-0.0007634	1399.98	-0.0012913	1422.64	-0.0001469
1377.81	-0.0009984	1400.46	-0.0008631	1423.12	0.0001625
1378.29	-0.0008929	1400.94	-0.0013346	1423.6	-0.0018158
1378.77	-0.0007181	1401.43	-0.0004939	1424.08	-0.0002319
1379.25	-0.0004685	1401.91	-0.001738	1424.57	-0.0004469
1379.73	-0.0004491	1402.39	-0.0008117	1425.05	-0.0000368
1380.22	-0.0005511	1402.87	-0.0014202	1425.53	-0.0012869
1380.7	-0.0003892	1403.35	-0.0007664	1426.01	-0.0007711
1381.18	-0.0001176	1403.84	-0.0017859	1426.49	-0.0006153
1381.66	-0.000586	1404.32	-0.0011472	1426.98	-0.0006867
1382.14	-0.0002358	1404.8	-0.0022442	1427.46	-0.0009128
1382.63	-0.0002482	1405.28	-0.0007534	1427.94	-0.000738
1383.11	-0.0000623	1405.76	-0.0011482	1428.42	-0.0004504
1383.59	-0.0004583	1406.25	-0.0005003	1428.9	-0.000521
1384.07	-0.0001178	1406.73	-0.0007604	1429.39	-0.0005951

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WN	ABS
1429.87	0.0008433
1430.35	0.0008449
1430.83	-0.0000567
1431.31	-0.0006744
1431.8	-0.0002248
1432.28	0.0006191
1432.76	-0.0001666
1433.24	-0.0000831
1433.72	0.0000566
1434.21	0.0008527
1434.69	-0.0005385
1435.17	-0.0004147
1435.65	0.0001358
1436.13	0.0026765
1436.62	-0.0008338
1437.1	-0.0002689
1437.58	-0.000077
1438.06	0.0007826
1438.54	-0.0010554
1439.03	-0.0003872
1439.51	-0.0003829
1439.99	0.0007253
1440.47	-0.0010677
1440.95	-0.0004152
1441.44	-0.0003519
1441.92	0.0004568
1442.4	-0.0007781
1442.88	-0.000154
1443.37	-0.0003157
1443.85	0.000562
1444.33	-0.0008866
1444.81	-0.0003198
1445.29	-0.00037
1445.78	0.0004239
1446.26	-0.0009544
1446.74	-0.0003407
1447.22	-0.0006229
1447.7	0.0017183
1448.19	-0.0010292
1448.67	-0.0004282
1449.15	-0.0004893
1449.63	0.0001471
1450.11	-0.000617

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WN	INT
750.154	42370.8
750.636	42602.6
751.119	42793.9
751.601	43044.9
752.083	43156.4
752.565	43293.1
753.047	43460.3
753.529	43683.3
754.011	43827.5
754.493	43905.2
754.975	44236.7
755.457	44441.1
755.939	44595.4
756.421	44755.9
756.903	44859.6
757.385	44949
757.867	45069.9
758.349	45271.9
758.831	45434.7
759.313	45571.2
759.795	45749.8
760.278	45902.4
760.76	45992.3
761.242	46073.2
761.724	46248.4
762.206	46357
762.688	46460.5
763.17	46567
763.652	46645.9
764.134	46731.9
764.616	46853.6
765.098	46938.7
765.58	47036.4
766.062	47194.6
766.544	47320.6
767.026	47442.1
767.508	47520.6
767.99	47562.3
768.473	47609.2
768.955	47676.9
769.437	47819
769.919	47918.6
770.401	48116.3
770.883	48283.4
771.365	48369.6
771.847	48448.1
772.329	48552.3

WN	INT
772.811	48642.4
773.293	48714.7
773.775	48834.2
774.257	48942.4
774.739	49032.8
775.221	49160.6
775.703	49199.1
776.185	49375.8
776.667	49439
777.15	49498.2
777.632	49666.7
778.114	49757.6
778.596	49850.3
779.078	49936.5
779.56	50007.3
780.042	50115.8
780.524	50210.7
781.006	50272.4
781.488	50351.8
781.97	50404.1
782.452	50408.6
782.934	50460.4
783.416	50473
783.898	50514.1
784.38	50408.1
784.862	50555.8
785.344	50596.6
785.827	50603.1
786.309	50586.4
786.791	50542.9
787.273	50525.8
787.755	50508.9
788.237	50481.3
788.719	50467.3
789.201	50424.9
789.683	50349.6
790.165	50284.3
790.647	50208.6
791.129	50182.1
791.611	50148.7
792.093	50055.2
792.575	49973.2
793.057	49862.4
793.539	49781.3
794.021	49662.8
794.504	49667.7
794.986	49607.2

WN	INT
795.468	49534
795.95	49277.7
796.432	49420.5
796.914	49326.8
797.396	49255.3
797.878	49228.9
798.36	49103.8
798.842	48982.6
799.324	49107.8
799.806	49060.8
800.288	49005.5
800.77	49002.6
801.252	48990.1
801.734	48958.7
802.216	49001.3
802.698	49081.3
803.18	49097
803.663	49125.4
804.145	49188.4
804.627	49244.5
805.109	49331.5
805.591	49430.5
806.073	49530.4
806.555	49624
807.037	49756.3
807.519	49867.9
808.001	49958.2
808.483	50167.8
808.965	50335.2
809.447	50494
809.929	50667.2
810.411	50824.5
810.893	50985.8
811.375	51154
811.857	51353.2
812.34	51488.5
812.822	51595.6
813.304	51741.2
813.786	51914.7
814.268	52078.1
814.75	52176.8
815.232	52269.3
815.714	52372.7
816.196	52503.8
816.678	52622.5
817.16	52741.9
817.642	52858.9

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WN	INT	WN	INT	WN	INT
818.124	52981.2	840.781	61101.1	863.437	63271.1
818.606	53088.8	841.263	61173.8	863.92	63307.8
819.088	53177.6	841.745	61296.6	864.402	63403.2
819.57	53310.6	842.227	61426.9	864.884	63482
820.053	53409.8	842.709	61556.1	865.366	63525.1
820.534	53484.6	843.191	61637.2	865.848	63570.4
821.017	53620.2	843.673	61699.4	866.33	63583.6
821.499	53750.3	844.155	61767.3	866.812	63613.4
821.981	53915.9	844.637	61818.1	867.294	63641
822.463	54080.8	845.119	61879.5	867.776	63673.1
822.945	54264.2	845.601	61972.9	868.258	63756
823.427	54451.4	846.083	62091.3	868.74	63813.6
823.909	54646	846.566	62150.8	869.222	63869.7
824.391	54858	847.048	62212.1	869.704	63903.8
824.873	55066.8	847.53	62289.7	870.186	63969
825.355	55271.4	848.012	62405.2	870.668	64031.2
825.837	55518.1	848.494	62501.3	871.15	64103.6
826.319	55819.8	848.976	62535.2	871.632	64160.5
826.801	56069.9	849.458	62533.9	872.114	64215.2
827.283	56307.2	849.94	62571.4	872.597	64275.2
827.765	56540.8	850.422	62612.5	873.079	64294.6
828.247	56793.5	850.904	62640.1	873.561	64332.6
828.729	57075.5	851.386	62667.6	874.043	64367.9
829.211	57254.4	851.868	62684.9	874.525	64420.2
829.694	57406.7	852.35	62658.9	875.007	64464.2
830.176	57638.7	852.832	62710.2	875.489	64530.5
830.658	57882.9	853.314	62816.8	875.971	64592.9
831.14	58092	853.796	62775	876.453	64650.4
831.622	58311.1	854.278	62791	876.935	64688.8
832.104	58504.4	854.76	62798.2	877.417	64715.5
832.586	58698.2	855.243	62845.6	877.899	64800.5
833.068	58889.9	855.725	62837.4	878.381	64882.8
833.55	59096.1	856.207	62854.9	878.863	64947.5
834.032	59283.4	856.689	62858.7	879.345	65010.8
834.514	59400.7	857.171	62871.9	879.827	65069.8
834.996	59581.3	857.653	62953	880.309	65158.7
835.478	59773.6	858.135	62987.3	880.791	65237.1
835.96	59921.8	858.617	63015.4	881.274	65316.4
836.442	60041.3	859.099	63036.4	881.756	65351.6
836.924	60141.8	859.581	63074.1	882.238	65419.5
837.407	60242	860.063	63080	882.72	65495.9
837.889	60349.6	860.545	63075.7	883.202	65577.2
838.371	60493.2	861.027	63098.3	883.684	65629.9
838.853	60666.4	861.509	63101.7	884.166	65673.3
839.335	60804.8	861.991	63156	884.648	65695.4
839.817	60887.1	862.473	63219.1	885.13	65723.3
840.299	61007.2	862.955	63247.2	885.612	65805.1

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WN	INT
886.094	65891
886.576	65942.8
887.058	65993.8
887.54	66027.2
888.022	66101
888.504	66145.7
888.986	66160.3
889.468	66158.6
889.951	66193.6
890.433	66207.5
890.915	66305.3
891.397	66378.5
891.879	66434.9
892.361	66444.3
892.843	66468.7
893.325	66509.5
893.807	66516.8
894.289	66581.6
894.771	66615
895.253	66598.9
895.735	66564.3
896.217	66608.8
896.699	66676.7
897.181	66713.8
897.663	66785.8
898.145	66799.1
898.628	66814.8
899.11	66806.4
899.592	66838.8
900.074	66830.5
900.556	66824.3
901.038	66853.1
901.52	66831.4
902.002	66827.9
902.484	66829.2
902.966	66851
903.448	66895.1
903.93	66916.9
904.412	66925.5
904.894	66914.4
905.376	66947.6
905.858	66948.6
906.34	66969.5
906.822	66994
907.305	67004.8
907.787	67001.4
908.269	66966.2

WN	INT
908.751	66968
909.233	66998.3
909.715	66973.7
910.197	66996.6
910.679	66988.2
911.161	66939.4
911.643	66944.3
912.125	66930.7
912.607	66909.3
913.089	66881
913.571	66905.3
914.053	66938.4
914.535	66891.7
915.017	66866.1
915.499	66876
915.982	66896.4
916.464	66881.4
916.946	66825.7
917.428	66815.9
917.91	66807.9
918.392	66820.2
918.874	66783.3
919.356	66754.7
919.838	66729.1
920.32	66686.1
920.802	66665.5
921.284	66651.1
921.766	66654.6
922.248	66601.5
922.73	66574
923.212	66545.1
923.694	66527.2
924.176	66531.9
924.659	66556.8
925.141	66542.1
925.623	66468.1
926.105	66442.1
926.587	66443.1
927.069	66422
927.551	66396.8
928.033	66375.3
928.515	66397.1
928.997	66431.5
929.479	66431.2
929.961	66397.5
930.443	66353.3
930.925	66347.2

WN	INT
931.407	66344.1
931.889	66356.9
932.371	66336.4
932.853	66275.1
933.336	66267.7
933.818	66221.7
934.3	66268.8
934.782	66258.4
935.264	66240.7
935.746	66240.5
936.228	66231.1
936.71	66193.6
937.192	66165
937.674	66178.2
938.156	66166.2
938.638	66147.6
939.12	66130.9
939.602	66087.5
940.084	66060.2
940.566	66000
941.048	65973.5
941.53	65971.8
942.013	65925.9
942.495	65876.5
942.977	65849
943.459	65816.3
943.941	65792.2
944.423	65783.1
944.905	65777.5
945.387	65741.1
945.869	65706
946.351	65674.4
946.833	65652.6
947.315	65577.2
947.797	65573.5
948.279	65577
948.761	65568.7
949.243	65538.5
949.725	65493.6
950.207	65431.7
950.69	65385.8
951.172	65396.6
951.654	65370.9
952.136	65331.7
952.618	65289.7
953.1	65257.1
953.582	65209.8

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WN	INT	WN	INT	WN	INT
954.064	65121.7	976.721	62580.2	999.377	58231
954.546	65089.7	977.203	62489.6	999.859	58104.8
955.028	65076.1	977.685	62387.2	1000.34	57983.8
955.51	65010.7	978.167	62345.7	1000.82	57823.9
955.992	64994.1	978.649	62243.2	1001.3	57654.7
956.474	64967.1	979.131	62125.7	1001.78	57529.3
956.956	64925.5	979.613	62065.2	1002.27	57388.3
957.438	64884.1	980.095	61952.3	1002.75	57221.8
957.92	64851.8	980.577	61903.7	1003.23	57037.2
958.402	64756.4	981.059	61845.2	1003.71	56851.4
958.885	64694.6	981.541	61789.9	1004.19	56625.9
959.367	64664.6	982.023	61702.3	1004.68	56452.4
959.849	64630.2	982.505	61633.3	1005.16	56268.5
960.331	64554.5	982.987	61556.8	1005.64	56081.8
960.813	64466.2	983.469	61482.2	1006.12	55929.8
961.295	64436.5	983.951	61395.1	1006.6	55718
961.777	64393.1	984.433	61299.5	1007.09	55492.7
962.259	64322.2	984.916	61193.8	1007.57	55232.4
962.741	64254.3	985.398	61082.3	1008.05	55001.5
963.223	64185.9	985.88	61013.1	1008.53	54772
963.705	64181.9	986.362	60938.9	1009.01	54563.9
964.187	64143.1	986.844	60913.9	1009.5	54332.2
964.669	64087.3	987.326	60841.6	1009.98	54084.7
965.151	63985.8	987.808	60766.6	1010.46	53814.9
965.633	63937	988.29	60678.3	1010.94	53612
966.115	63925.3	988.772	60615.5	1011.42	53397.1
966.597	63897	989.254	60540.3	1011.91	53180.4
967.079	63824.6	989.736	60431.1	1012.39	52911.2
967.562	63783.6	990.218	60334.4	1012.87	52677.8
968.043	63738.3	990.7	60242.3	1013.35	52479.6
968.526	63690.4	991.182	60138.1	1013.83	52283.4
969.008	63626.5	991.664	60041.8	1014.32	52091.2
969.49	63559.2	992.146	59943	1014.8	51891.3
969.972	63474.5	992.628	59864.8	1015.28	51672.9
970.454	63441.6	993.11	59778.2	1015.76	51462
970.936	63381	993.593	59651.8	1016.24	51242.8
971.418	63302	994.075	59533.9	1016.73	51052.1
971.9	63223.9	994.557	59439.9	1017.21	50893.4
972.382	63142.5	995.039	59326.4	1017.69	50732.9
972.864	63085.7	995.521	59230.5	1018.17	50602.1
973.346	63052.8	996.003	59127.1	1018.65	50482.4
973.828	62981.5	996.485	59030.8	1019.14	50340.9
974.31	62931.9	996.967	58932.3	1019.62	50188.1
974.792	62908.3	997.449	58832.2	1020.1	50022.2
975.274	62838.9	997.931	58670.2	1020.58	49894.7
975.756	62744.8	998.413	58547.3	1021.07	49746.9
976.239	62661.8	998.895	58393.8	1021.55	49593.9

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WN	INT	WN	INT	WN	INT
1022.03	49509.7	1044.69	46005.7	1067.34	42713.9
1022.51	49368.7	1045.17	45984.2	1067.83	42610.3
1022.99	49211.6	1045.65	45895.1	1068.31	42481.1
1023.48	49137.6	1046.13	45855	1068.79	42378.9
1023.96	49078.9	1046.61	45806.3	1069.27	42304.7
1024.44	48969.8	1047.1	45726.1	1069.75	42221.3
1024.92	48859.4	1047.58	45631.1	1070.24	42104.5
1025.4	48789.1	1048.06	45567.1	1070.72	41980.3
1025.89	48719.4	1048.54	45527.9	1071.2	41850
1026.37	48627.8	1049.02	45494.7	1071.68	41768
1026.85	48590.5	1049.51	45445.2	1072.16	41656.3
1027.33	48509.2	1049.99	45429.1	1072.65	41551.8
1027.81	48426	1050.47	45391.2	1073.13	41434
1028.3	48389.1	1050.95	45339.9	1073.61	41314.9
1028.78	48296.2	1051.44	45270.3	1074.09	41226
1029.26	48213.5	1051.92	45205.2	1074.57	41137.2
1029.74	48161.9	1052.4	45159.2	1075.06	41039.2
1030.22	48118.6	1052.88	45128.7	1075.54	40957.7
1030.71	48097.9	1053.36	45087.3	1076.02	40868.8
1031.19	48018.5	1053.85	45016.6	1076.5	40737.4
1031.67	47943.2	1054.33	44896.1	1076.98	40587
1032.15	47863.3	1054.81	44876.2	1077.47	40505.7
1032.63	47814.1	1055.29	44826.8	1077.95	40365.7
1033.12	47742.2	1055.77	44741.3	1078.43	40250.2
1033.6	47654.2	1056.26	44678.5	1078.91	40108.7
1034.08	47593.5	1056.74	44633.3	1079.39	39941.3
1034.56	47552.6	1057.22	44590	1079.88	39851.6
1035.05	47538.7	1057.7	44513.4	1080.36	39743.6
1035.53	47443.7	1058.18	44441	1080.84	39637
1036.01	47366.2	1058.67	44382	1081.32	39508.7
1036.49	47282.2	1059.15	44276.7	1081.8	39374.7
1036.97	47226.9	1059.63	44208.2	1082.29	39275.8
1037.46	47162.9	1060.11	44125.3	1082.77	39174.3
1037.94	47071.4	1060.59	44003.9	1083.25	39057.6
1038.42	47013.2	1061.08	43925.2	1083.73	38947.9
1038.9	46929.5	1061.56	43886.1	1084.21	38860
1039.38	46838.2	1062.04	43830.8	1084.7	38712.2
1039.87	46749.7	1062.52	43727.8	1085.18	38602
1040.35	46617.7	1063	43598.1	1085.66	38502.6
1040.83	46521.3	1063.49	43525.7	1086.14	38372.4
1041.31	46468.3	1063.97	43410.2	1086.63	38279.5
1041.79	46406.2	1064.45	43289.5	1087.11	38158
1042.28	46310.5	1064.93	43207.9	1087.59	38031.1
1042.76	46250.3	1065.41	43078.4	1088.07	37939.5
1043.24	46207.6	1065.9	42969	1088.55	37878.2
1043.72	46134.7	1066.38	42907.6	1089.04	37812.6
1044.2	46053.4	1066.86	42826.7	1089.52	37712.4

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WN	INT	WN	INT	WN	INT
1090	37594.7	1112.66	35080.9	1135.31	35125.8
1090.48	37504.5	1113.14	35061.8	1135.79	34975.6
1090.96	37398.6	1113.62	35027.2	1136.28	35174.3
1091.45	37287.5	1114.1	35040.7	1136.76	35170.2
1091.93	37158.7	1114.58	35043.7	1137.24	35105.7
1092.41	37080.5	1115.07	35017.1	1137.72	35113.7
1092.89	36970.1	1115.55	34988.4	1138.21	35114.6
1093.37	36867.1	1116.03	34923.3	1138.69	35139.2
1093.86	36784	1116.51	34900.2	1139.17	35220.4
1094.34	36715.3	1116.99	34914.5	1139.65	35212.4
1094.82	36608.2	1117.48	34897.8	1140.13	35163.8
1095.3	36497.8	1117.96	34835.7	1140.62	35139.1
1095.78	36433.6	1118.44	34847	1141.1	35136.6
1096.27	36341.5	1118.92	34833.4	1141.58	35131
1096.75	36248	1119.41	34851.3	1142.06	35100.9
1097.23	36212.4	1119.89	34821.1	1142.54	35083.5
1097.71	36154.8	1120.37	34832.2	1143.03	35048.9
1098.19	36067.9	1120.85	34831.8	1143.51	35021.8
1098.68	36018.8	1121.33	34791.8	1143.99	34996.2
1099.16	35968.5	1121.82	34833.4	1144.47	34980.8
1099.64	35923.4	1122.3	34851.1	1144.95	34938
1100.12	35881	1122.78	34841.3	1145.44	34920.6
1100.6	35822.5	1123.26	34845.8	1145.92	34908.3
1101.09	35814.3	1123.74	34880.9	1146.4	34876.7
1101.57	35766.5	1124.23	34895.2	1146.88	34865.8
1102.05	35691.4	1124.71	34883.4	1147.36	34825.2
1102.53	35644.5	1125.19	34899.2	1147.85	34783.6
1103.02	35594.7	1125.67	34918.4	1148.33	34760.2
1103.5	35524	1126.15	34928.5	1148.81	34728.9
1103.98	35514.9	1126.64	34948.9	1149.29	34649.7
1104.46	35465.6	1127.12	34959.5	1149.77	34635.2
1104.94	35424.4	1127.6	34968.6	1150.26	34647.7
1105.43	35398.2	1128.08	34986.2	1150.74	34662.4
1105.91	35383.6	1128.56	34981.1	1151.22	34634.3
1106.39	35333.6	1129.05	34991.6	1151.7	34544.5
1106.87	35257	1129.53	35024.5	1152.18	34487.4
1107.35	35266.5	1130.01	35047.1	1152.67	34443.7
1107.84	35262.7	1130.49	35060.5	1153.15	34401.2
1108.32	35275.5	1130.97	35073.7	1153.63	34400
1108.8	35258.7	1131.46	35094.3	1154.11	34334.9
1109.28	35230.2	1131.94	35124.9	1154.6	34275.9
1109.76	35238	1132.42	35143.8	1155.08	34253.2
1110.25	35225.7	1132.9	35123.4	1155.56	34167.4
1110.73	35236	1133.38	35146.6	1156.04	34084.9
1111.21	35246.5	1133.87	35150.3	1156.52	34049.3
1111.69	35183.7	1134.35	35163	1157.01	34013.3
1112.17	35137.9	1134.83	35149.5	1157.49	34026.1



Filenam LMA0115  
Subfile: 0212

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1157.97	33989.7	1180.63	31413	1203.28	29376.8
1158.45	33901.5	1181.11	31338.4	1203.76	29306.3
1158.93	33828.4	1181.59	31295.6	1204.25	29236
1159.42	33801.1	1182.07	31258.3	1204.73	29215
1159.9	33791.8	1182.55	31225.9	1205.21	29155.4
1160.38	33747.1	1183.04	31174.3	1205.69	29099.2
1160.86	33688.3	1183.52	31129.8	1206.18	29039.6
1161.34	33625.9	1184	31088.2	1206.66	28993.8
1161.83	33556.9	1184.48	31025.8	1207.14	28938.2
1162.31	33446.6	1184.96	30993.7	1207.62	28884.6
1162.79	33398.2	1185.45	30950.5	1208.1	28845.1
1163.27	33372	1185.93	30918.7	1208.59	28789.8
1163.75	33297	1186.41	30853.6	1209.07	28721.1
1164.24	33228.6	1186.89	30576	1209.55	28667.2
1164.72	33168.5	1187.37	30790.9	1210.03	28609.1
1165.2	33097.3	1187.86	30754.3	1210.51	28570.2
1165.68	33078.7	1188.34	30716.1	1211	28482.3
1166.16	33015	1188.82	30668.6	1211.48	28438.1
1166.65	32959.3	1189.3	30616.8	1211.96	28297.1
1167.13	32881.5	1189.79	30595.5	1212.44	28184.7
1167.61	32872.5	1190.27	30564.2	1212.92	28294.2
1168.09	32830.2	1190.75	30522.1	1213.41	28277.1
1168.57	32755.7	1191.23	30466.3	1213.89	28216.9
1169.06	32690	1191.71	30409.2	1214.37	28151.2
1169.54	32638.6	1192.2	30385	1214.85	28101.3
1170.02	32577.9	1192.68	30363.4	1215.33	28053.2
1170.5	32494.6	1193.16	30307.4	1215.82	27999.9
1170.98	32465.7	1193.64	30251.8	1216.3	27968.5
1171.47	32404.8	1194.12	30234	1216.78	27917.8
1171.95	32329.9	1194.61	30180.9	1217.26	27866.5
1172.43	32290.7	1195.09	30113.9	1217.74	27841.5
1172.91	32247.7	1195.57	30070.4	1218.23	27730.7
1173.4	32191.9	1196.05	30051.6	1218.71	27642.3
1173.88	32178.7	1196.53	29994.3	1219.19	27675.4
1174.36	31874.5	1197.02	29970.2	1219.67	27620.7
1174.84	32021.2	1197.5	29926.5	1220.15	27563.3
1175.32	31998.4	1197.98	29773.2	1220.64	27506.9
1175.81	31951.6	1198.46	29781.6	1221.12	27455.4
1176.29	31911.3	1198.94	29832.1	1221.6	27419.9
1176.77	31856.2	1199.43	29789.7	1222.08	27392.5
1177.25	31780.3	1199.91	29728.3	1222.56	27378.7
1177.73	31710.8	1200.39	29657.3	1223.05	27342.5
1178.22	31661.8	1200.87	29622.3	1223.53	27269.9
1178.7	31617.1	1201.35	29613.7	1224.01	27233.4
1179.18	31560.6	1201.84	29596.8	1224.49	27108.4
1179.66	31489.6	1202.32	29503.2	1224.98	26757.6
1180.14	31455.9	1202.8	29444.6	1225.46	26930.4

Filenam LMA0115  
Subfile: 0212

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1225.94	26951	1248.6	24059.3	1271.25	21421
1226.42	26888.2	1249.08	23966.3	1271.73	20608
1226.9	26912.3	1249.56	23847.8	1272.22	21568.7
1227.39	26856	1250.04	23783.6	1272.7	21636.4
1227.87	26751.8	1250.52	23707	1273.18	21638.1
1228.35	26677.6	1251.01	23583.1	1273.66	21618.2
1228.83	26619.7	1251.49	23450.6	1274.14	21610.4
1229.31	26564.4	1251.97	23349	1274.63	21596.1
1229.8	26524.4	1252.45	23212.1	1275.11	21566.4
1230.28	26471.2	1252.93	23076.2	1275.59	21576.1
1230.76	26400.4	1253.42	22905.9	1276.07	21583.6
1231.24	26345.8	1253.9	22757.9	1276.56	21515.9
1231.72	26298.6	1254.38	22596.3	1277.04	21485
1232.21	26258.1	1254.86	22397.7	1277.52	21434.1
1232.69	26196.4	1255.34	22228.4	1278	21420.1
1233.17	26121.9	1255.83	22008.2	1278.48	21369.3
1233.65	26060.9	1256.31	21818.4	1278.97	21336
1234.13	26009.8	1256.79	21630.2	1279.45	21302.3
1234.62	25940.7	1257.27	21443	1279.93	21102.7
1235.1	25890.1	1257.76	21225	1280.41	21203.9
1235.58	25809.7	1258.24	21000.5	1280.89	21186.9
1236.06	25772.6	1258.72	20808.2	1281.38	21132.7
1236.54	25724.9	1259.2	20708.8	1281.86	21124.1
1237.03	25660.8	1259.68	20526.8	1282.34	21064.4
1237.51	25593.4	1260.17	19826.7	1282.82	21034.9
1237.99	25531.7	1260.65	20063.9	1283.3	21008.8
1238.47	25474.4	1261.13	20234.1	1283.79	20941.3
1238.95	25411.5	1261.61	20210.3	1284.27	20822.9
1239.44	25395.6	1262.09	20199.7	1284.75	20830.5
1239.92	25343.3	1262.58	20217.5	1285.23	20798.3
1240.4	25254.6	1263.06	20255.7	1285.71	20750.9
1240.88	25164	1263.54	20328.6	1286.2	20689.8
1241.37	25107.1	1264.02	20358.1	1286.68	20630
1241.85	25038.9	1264.5	20503.7	1287.16	20209.5
1242.33	24985.3	1264.99	20582	1287.64	20215.2
1242.81	24894.2	1265.47	20647.1	1288.12	20081.9
1243.29	24854.8	1265.95	20670.8	1288.61	20391.1
1243.78	24666.7	1266.43	20847.9	1289.09	20360.5
1244.26	24412.3	1266.91	20981.9	1289.57	20417
1244.74	24614.5	1267.4	21123.5	1290.05	20299.3
1245.22	24570.5	1267.88	21153	1290.53	19959.3
1245.7	24489.9	1268.36	21061.2	1291.02	20317.8
1246.19	24418.4	1268.84	21438.7	1291.5	20251.5
1246.67	24373.9	1269.32	21430.1	1291.98	20224.2
1247.15	24296.5	1269.81	21029.4	1292.46	20175
1247.63	24202.6	1270.29	21409.6	1292.95	20137.9
1248.11	24117.2	1270.77	21570.6	1293.43	20126.1

Filenam LMA0115  
Subfile: 0212

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1293.91	20076.1	1316.57	17268.4	1339.22	13517.7
1294.39	20025	1317.05	16277.4	1339.7	14075.3
1294.87	19983.1	1317.53	17477.9	1340.19	12697.7
1295.36	19949.7	1318.01	17515.2	1340.67	13629.9
1295.84	19897.2	1318.49	16854.1	1341.15	15147.4
1296.32	19674.5	1318.98	15463.9	1341.63	15253
1296.8	19558	1319.46	17254.6	1342.11	15285.3
1297.28	19724.5	1319.94	16811	1342.6	15285.5
1297.77	19710.4	1320.42	17254.1	1343.08	15296.3
1298.25	19674	1320.9	17002.6	1343.56	15281.8
1298.73	19636.2	1321.39	17453.8	1344.04	15224.7
1299.21	19606.8	1321.87	17435.3	1344.52	15253.7
1299.69	19568.9	1322.35	17429.7	1345.01	15233.7
1300.18	19529	1322.83	17355.7	1345.49	15189.8
1300.66	19476.4	1323.31	17151.3	1345.97	15170.4
1301.14	19415.3	1323.8	17376.3	1346.45	15160.1
1301.62	19359.9	1324.28	17377.4	1346.94	15089
1302.1	19316.8	1324.76	17339.6	1347.42	15044.2
1302.59	19291.4	1325.24	17307.8	1347.9	15018.5
1303.07	19235.3	1325.72	17278.1	1348.38	14953
1303.55	19180.7	1326.21	17234.8	1348.86	14682
1304.03	19134.8	1326.69	17220.4	1349.35	14094.2
1304.51	19069.5	1327.17	17190.2	1349.83	14768
1305	19020.2	1327.65	17116.2	1350.31	14786.7
1305.48	18905.7	1328.14	17101.9	1350.79	14757.6
1305.96	18894.8	1328.62	17073.8	1351.27	14689.7
1306.44	18851.7	1329.1	17027.8	1351.76	14637.6
1306.92	18795.5	1329.58	16899.5	1352.24	14574.3
1307.41	18768.1	1330.06	16753	1352.72	14578.3
1307.89	18396.5	1330.55	16889.2	1353.2	14523.9
1308.37	18256.2	1331.03	16822.3	1353.68	14440.1
1308.85	18552.5	1331.51	16741.5	1354.17	14299.3
1309.34	18531.3	1331.99	16657.4	1354.65	13465.5
1309.82	18456.8	1332.47	16557.1	1355.13	13768.2
1310.3	18412.7	1332.96	16513.6	1355.61	14116.8
1310.78	18345.6	1333.44	16424	1356.09	14097
1311.26	18334.8	1333.92	16356.7	1356.58	14007.2
1311.75	18266.1	1334.4	16246.7	1357.06	13908.7
1312.23	17534.4	1334.88	16153.5	1357.54	13784.2
1312.71	17208.9	1335.37	16039.4	1358.02	13255.1
1313.19	17598.1	1335.85	15961	1358.5	13703.5
1313.67	17158.1	1336.33	15080.9	1358.99	13624.7
1314.16	17805.6	1336.81	13990	1359.47	13571.1
1314.64	17192.2	1337.29	15561.6	1359.95	13483.1
1315.12	17864.5	1337.78	15322.5	1360.43	13166.7
1315.6	17793	1338.26	14291.1	1360.91	11304
1316.08	17684.8	1338.74	13543.6	1361.4	12433.1

Filenam LMA0115  
Subfile: 0212

Type: 40 deg C BB

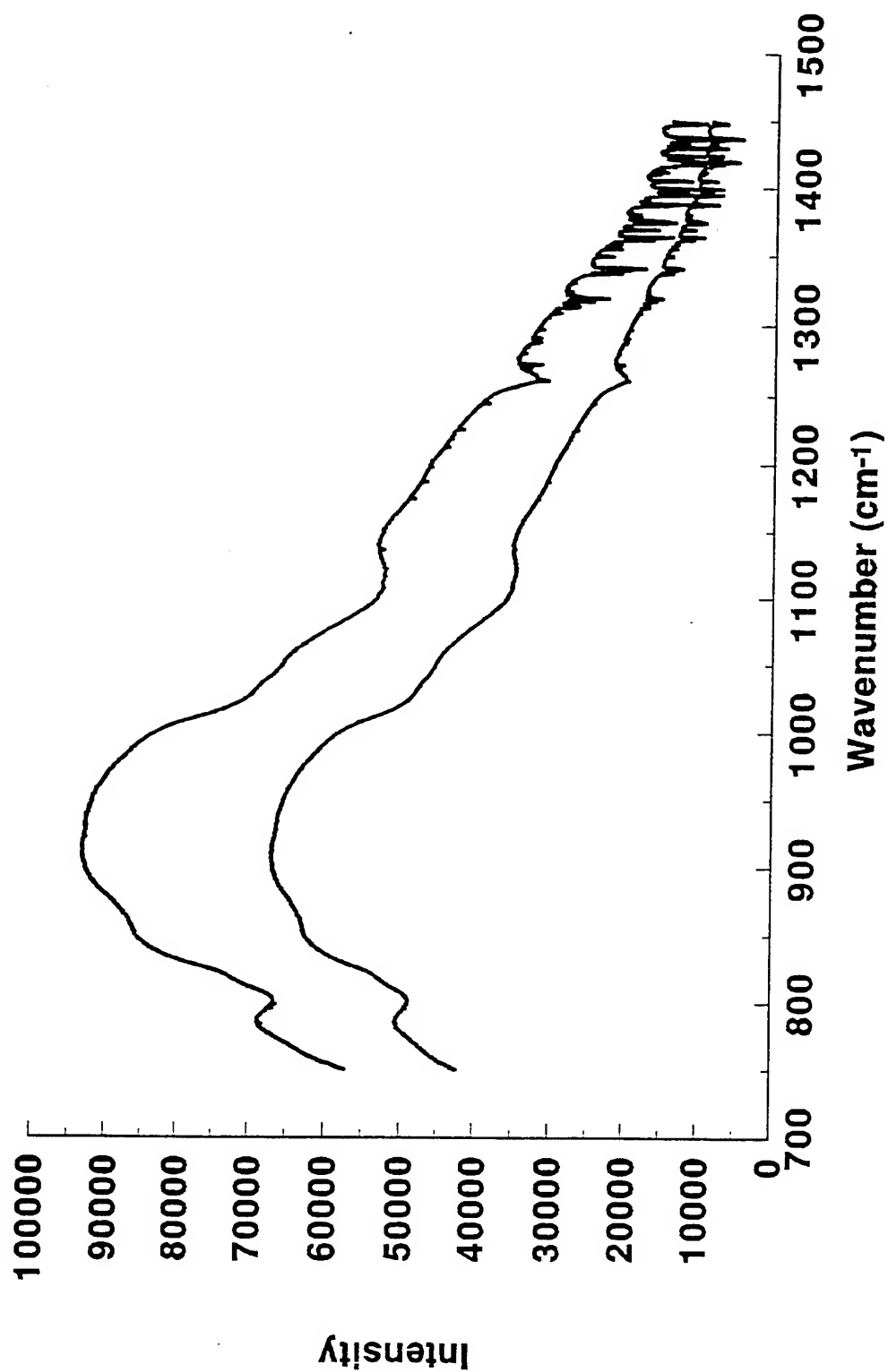
WN	INT	WN	INT	WN	INT
1361.88	12923.1	1384.54	11961.3	1407.19	10556.1
1362.36	11952.6	1385.02	11871.7	1407.67	10600.5
1362.84	10524.4	1385.5	11744.8	1408.16	10558.2
1363.33	9860.09	1385.98	11310.6	1408.64	10519.6
1363.81	12832.5	1386.46	10137.7	1409.12	10560.7
1364.29	13077	1386.95	10433.2	1409.6	10272.7
1364.77	13125.2	1387.43	7946.74	1410.08	9950.98
1365.25	13112.3	1387.91	10340.6	1410.57	10403.4
1365.74	13102.9	1388.39	11210.7	1411.05	10206
1366.22	13061.9	1388.87	11370.7	1411.53	9592.66
1366.7	13059.5	1389.36	11356.4	1412.01	9714.05
1367.18	13040.7	1389.84	11277.5	1412.49	10229.3
1367.66	12954.9	1390.32	11163.1	1412.98	10159.2
1368.15	12438	1390.8	10938.2	1413.46	10112.2
1368.63	11002.2	1391.28	11044.7	1413.94	10015
1369.11	12754.7	1391.77	11062.1	1414.42	9929.03
1369.59	12768.3	1392.25	10968.8	1414.91	9793.27
1370.07	12752.3	1392.73	10880.2	1415.39	9738.45
1370.56	12775.2	1393.21	10712.7	1415.87	8990.92
1371.04	12705.8	1393.69	10159.2	1416.35	9048.15
1371.52	12703.2	1394.18	8057.05	1416.83	8985.23
1372	12414.7	1394.66	7422.6	1417.32	7285.76
1372.48	12311.2	1395.14	9650.17	1417.8	8527.37
1372.97	12192.2	1395.62	8552	1418.28	8521.44
1373.45	10560.9	1396.1	9435.57	1418.76	6776.65
1373.93	9639.13	1396.59	10315.1	1419.24	5208.91
1374.41	11646.2	1397.07	10265.5	1419.73	6296.66
1374.89	10333	1397.55	9098.83	1420.21	8506.22
1375.38	11233.3	1398.03	9622.49	1420.69	9027.93
1375.86	12167.9	1398.52	9452.75	1421.17	9185.63
1376.34	12309.6	1399	7382.13	1421.65	9269.29
1376.82	12295.9	1399.48	8422.32	1422.14	9275.62
1377.3	12274.1	1399.96	10048.2	1422.62	9239.88
1377.79	11709.7	1400.44	10332.8	1423.1	8838.02
1378.27	11862.7	1400.93	10412.4	1423.58	7444.59
1378.75	12210.2	1401.41	10474.6	1424.06	7494.86
1379.23	12026.1	1401.89	10487.5	1424.55	9255.48
1379.72	11704	1402.37	10488.4	1425.03	9506.33
1380.2	12181.3	1402.85	10466.4	1425.51	9567.63
1380.68	12280.7	1403.34	10383.4	1425.99	9592.78
1381.16	12257.7	1403.82	10368.3	1426.47	9615.19
1381.64	12191.4	1404.3	9916.21	1426.96	9620.11
1382.13	12079.7	1404.78	8216.29	1427.44	9604.27
1382.61	12170	1405.26	8933.98	1427.92	9388.21
1383.09	12101.7	1405.75	10307.4	1428.4	9122.73
1383.57	12043	1406.23	10509.8	1428.88	9384.31
1384.05	12026.2	1406.71	10550.2	1429.37	8675.31

Filenam LMA0115  
Subfile: 0212

Type: 40 deg C BB

WN	INT
1429.85	6865.85
1430.33	8500.19
1430.81	9178.28
1431.3	9280.42
1431.78	8998.21
1432.26	9062.84
1432.74	8962.23
1433.22	8150.64
1433.71	8963.56
1434.19	9040.04
1434.67	8950.55
1435.15	8602.44
1435.63	7656.04
1436.12	6879.52
1436.6	4702.98
1437.08	6071.74
1437.56	8292.59
1438.04	8833.13
1438.53	9026.8
1439.01	9126.55
1439.49	9182.64
1439.97	9229.86
1440.45	9262.28
1440.94	9287.47
1441.42	9265.12
1441.9	9354.03
1442.38	9355.58
1442.86	9350.34
1443.35	9365.83
1443.83	9361.7
1444.31	9354.91
1444.79	9227.25
1445.27	9134.45
1445.76	9214.65
1446.24	8994.49
1446.72	8907.54
1447.2	8510.68
1447.68	6872.72
1448.17	6864.91
1448.65	8530.68
1449.13	8765.62
1449.61	8772.79
1450.1	8728

**Blackbody Response at 40°C and 81°C**  
**LMA0115**



Filenam LMA0115  
Subfile: 0109

Type: 81 deg C BB

WN	INT
750.154	57248.6
750.636	57559.9
751.119	57793.9
751.601	58082.2
752.083	58240.2
752.565	58503
753.047	58743.2
753.529	58981.5
754.011	59065
754.493	59151.2
754.975	59768.4
755.457	60038.4
755.939	60208.9
756.421	60550
756.903	60691.9
757.385	60755
757.867	60927.1
758.349	61221.1
758.831	61447.4
759.313	61586.8
759.795	61819.5
760.278	62076.7
760.76	62188.4
761.242	62339
761.724	62505.9
762.206	62680.6
762.688	62844.4
763.17	63009.7
763.652	63073.8
764.134	63196.5
764.616	63353.9
765.098	63496.6
765.58	63638
766.062	63821.7
766.544	63930.6
767.026	64106.2
767.508	64264.2
767.99	64395.6
768.473	64500.7
768.955	64558.9
769.437	64776.8
769.919	64862.2
770.401	65093.8
770.883	65327.7
771.365	65449
771.847	65554.7
772.329	65727.1

WN	INT
772.811	65837.4
773.293	65972.1
773.775	66180.5
774.257	66336
774.739	66485.9
775.221	66654
775.703	66653.9
776.185	66872.3
776.667	66979.8
777.15	66971
777.632	67349.4
778.114	67439.6
778.596	67553.2
779.078	67644.5
779.56	67808.2
780.042	68005.2
780.524	68100.4
781.006	68169.7
781.488	68313.7
781.97	68416.4
782.452	68455.3
782.934	68523
783.416	68558.5
783.898	68605.3
784.38	68221.6
784.862	68614.6
785.344	68744.5
785.827	68743
786.309	68697
786.791	68676.5
787.273	68642.5
787.755	68668.2
788.237	68658.5
788.719	68608.4
789.201	68568.4
789.683	68505.1
790.165	68396.5
790.647	68291.8
791.129	68244.9
791.611	68155.5
792.093	68054
792.575	67998.4
793.057	67918
793.539	67752.1
794.021	67528.7
794.504	67639.2
794.986	67479.2

WN	INT
795.468	67339.6
795.95	66786.7
796.432	67312.6
796.914	67176.9
797.396	67007.1
797.878	66976.7
798.36	66597.7
798.842	66342.3
799.324	66744.7
799.806	66681.1
800.288	66608.8
800.77	66626
801.252	66617.3
801.734	66617.6
802.216	66596.8
802.698	66698.6
803.18	66657.1
803.663	66642.3
804.145	66871.1
804.627	66930.7
805.109	67062.3
805.591	67181.1
806.073	67342.4
806.555	67513.2
807.037	67683.6
807.519	67848.4
808.001	67976.6
808.483	68279.8
808.965	68509.4
809.447	68717.4
809.929	68959.5
810.411	69175.3
810.893	69414.1
811.375	69655.2
811.857	69966.7
812.34	70203.2
812.822	70341.6
813.304	70538.7
813.786	70725.2
814.268	70972.9
814.75	71072.6
815.232	71340.2
815.714	71484.7
816.196	71623
816.678	71817.8
817.16	71989.1
817.642	72179.6

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WN	INT	WN	INT	WN	INT
818.124	72300.2	840.781	83775.6	863.437	86949.7
818.606	72453.9	841.263	83831.4	863.92	86969.6
819.088	72625.1	841.745	83928.8	864.402	87071.3
819.57	72747.1	842.227	84111.9	864.884	87165.9
820.053	72875.9	842.709	84251.9	865.366	87249
820.534	73054.4	843.191	84359.4	865.848	87393.3
821.017	73289.6	843.673	84484.8	866.33	87440.7
821.499	73399.9	844.155	84590.3	866.812	87430.1
821.981	73619	844.637	84691.7	867.294	87504.5
822.463	73867.4	845.119	84810.5	867.776	87593.9
822.945	74085	845.601	84911.5	868.258	87662.8
823.427	74405.6	846.083	85046.7	868.74	87779.4
823.909	74660.7	846.566	85142.2	869.222	87862.4
824.391	74924.7	847.048	85223.9	869.704	87916.3
824.873	75260.3	847.53	85330	870.186	88051.3
825.355	75607.2	848.012	85485.8	870.668	88098.6
825.837	75914.7	848.494	85609.3	871.15	88135
826.319	76294.7	848.976	85683.2	871.632	88271.7
826.801	76663.6	849.458	85654.1	872.114	88377.7
827.283	76943.8	849.94	85725.2	872.597	88466.3
827.765	77200.8	850.422	85798.8	873.079	88533.4
828.247	77655.4	850.904	85847.2	873.561	88601.8
828.729	78034.6	851.386	85909.4	874.043	88650.1
829.211	78358.6	851.868	85901.7	874.525	88701.1
829.694	78632	852.35	85791.1	875.007	88764.3
830.176	78946.4	852.832	85881.8	875.489	88874.7
830.658	79255.1	853.314	86076.3	875.971	88990.4
831.14	79515.7	853.796	86098.8	876.453	89086.6
831.622	79769	854.278	86068.6	876.935	89145.7
832.104	80080.1	854.76	86030.4	877.417	89286.7
832.586	80372.5	855.243	86199.6	877.899	89358.2
833.068	80580.6	855.725	86228	878.381	89445.4
833.55	80861.5	856.207	86243.7	878.863	89564.1
834.032	81145.7	856.689	86272.2	879.345	89708.9
834.514	81383	857.171	86326.9	879.827	89788.2
834.996	81618.2	857.653	86390.6	880.309	89932.3
835.478	81809.9	858.135	86430.8	880.791	90089.1
835.96	82018.4	858.617	86485.7	881.274	90194.2
836.442	82205.6	859.099	86544.7	881.756	90254.3
836.924	82376.4	859.581	86610.7	882.238	90366.7
837.407	82500.2	860.063	86615.2	882.72	90507.6
837.889	82668.3	860.545	86656	883.202	90588.1
838.371	82837.5	861.027	86691.1	883.684	90679.5
838.853	83097.8	861.509	86697.9	884.166	90763.2
839.335	83258.3	861.991	86743.9	884.648	90830.3
839.817	83328.8	862.473	86858.9	885.13	90911.6
840.299	83618.1	862.955	86930.3	885.612	91029.1



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WN	INT
886.094	91154.6
886.576	91211
887.058	91210.6
887.54	91269.2
888.022	91394.4
888.504	91486.1
888.986	91507.2
889.468	91546.4
889.951	91632.9
890.433	91681.7
890.915	91790.7
891.397	91877.7
891.879	91971.1
892.361	91969.2
892.843	92008.4
893.325	92061.9
893.807	92094.1
894.289	92236.9
894.771	92333
895.253	92359.5
895.735	92323.7
896.217	92362.2
896.699	92408.1
897.181	92457.4
897.663	92547.2
898.145	92600
898.628	92614.3
899.11	92631.2
899.592	92689.6
900.074	92656.2
900.556	92672.6
901.038	92709.4
901.52	92701.5
902.002	92749.3
902.484	92741.3
902.966	92787.9
903.448	92906.4
903.93	92885.9
904.412	92894.7
904.894	92940.8
905.376	92895.5
905.858	92933.3
906.34	92977.3
906.822	93012.2
907.305	93041.9
907.787	93081.2
908.269	93003

WN	INT
908.751	92994.4
909.233	93052.6
909.715	93102.8
910.197	93096.5
910.679	93094.3
911.161	93048.6
911.643	93028.6
912.125	93003.5
912.607	93000.1
913.089	92984.1
913.571	93077.6
914.053	93089.1
914.535	93092.7
915.017	93096.1
915.499	93068
915.982	93085.1
916.464	93087.4
916.946	93043.7
917.428	93024.6
917.91	93001
918.392	93000.3
918.874	93005.1
919.356	93020.3
919.838	92934.2
920.32	92873.7
920.802	92866.4
921.284	92850.3
921.766	92789.2
922.248	92701.9
922.73	92772
923.212	92780.2
923.694	92775.5
924.176	92803.8
924.659	92784.9
925.141	92742.8
925.623	92707.9
926.105	92675.3
926.587	92679.3
927.069	92672.2
927.551	92648
928.033	92654.3
928.515	92661.2
928.997	92662
929.479	92675.9
929.961	92668.9
930.443	92630.2
930.925	92584.8

WN	INT
931.407	92634.5
931.889	92682.8
932.371	92666.7
932.853	92626
933.336	92634.5
933.818	92596.8
934.3	92596.2
934.782	92583.3
935.264	92594.1
935.746	92616.6
936.228	92619.3
936.71	92528.2
937.192	92526.5
937.674	92544.5
938.156	92507.7
938.638	92547.6
939.12	92525.8
939.602	92464.9
940.084	92404
940.566	92303.3
941.048	92268
941.53	92281.9
942.013	92222.3
942.495	92228.2
942.977	92179
943.459	92169.3
943.941	92178.2
944.423	92104.2
944.905	92068.3
945.387	92073.8
945.869	92051.2
946.351	92000.1
946.833	91949.5
947.315	91901.7
947.797	91889.8
948.279	91815.6
948.761	91871.6
949.243	91871
949.725	91801.9
950.207	91770.8
950.69	91730.1
951.172	91753.6
951.654	91725.5
952.136	91742.5
952.618	91707.1
953.1	91599.8
953.582	91502.6

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WN	INT	WN	INT	WN	INT
954.064	91440.4	976.721	88436.6	999.377	83101.3
954.546	91385.3	977.203	88313.3	999.859	82905.9
955.028	91419.8	977.685	88194.4	1000.34	82759.6
955.51	91349	978.167	88143.8	1000.82	82552.7
955.992	91318.9	978.649	87993.9	1001.3	82330.9
956.474	91359.3	979.131	87874.8	1001.78	82237.3
956.956	91302.4	979.613	87784	1002.27	82053.9
957.438	91257.9	980.095	87669.2	1002.75	81847.8
957.92	91175.3	980.577	87607.8	1003.23	81622.5
958.402	91078.1	981.059	87487.2	1003.71	81358.1
958.885	90989.2	981.541	87412.6	1004.19	81093.2
959.367	90887.9	982.023	87287.5	1004.68	80878.6
959.849	90836	982.505	87179.2	1005.16	80612.2
960.331	90776.7	982.987	87097.1	1005.64	80375.9
960.813	90678.9	983.469	87022.9	1006.12	80189
961.295	90609.7	983.951	86938.2	1006.6	79859.9
961.777	90595.7	984.433	86802.9	1007.09	79551.7
962.259	90538.1	984.916	86693.8	1007.57	79230.8
962.741	90428.9	985.398	86642.4	1008.05	78905.8
963.223	90338	985.88	86572	1008.53	78597.9
963.705	90340.4	986.362	86491.9	1009.01	78310
964.187	90273.4	986.844	86493.4	1009.5	78048.7
964.669	90228.3	987.326	86366.5	1009.98	77692.6
965.151	90151.7	987.808	86269.3	1010.46	77358.2
965.633	90069.4	988.29	86092.7	1010.94	77032.9
966.115	90044.9	988.772	86022	1011.42	76728.2
966.597	90013.7	989.254	85927.4	1011.91	76485.1
967.079	89925.5	989.736	85791.3	1012.39	76134.8
967.562	89894.3	990.218	85700.2	1012.87	75772.7
968.043	89869.3	990.7	85587.2	1013.35	75495.3
968.526	89744.3	991.182	85490.6	1013.83	75233.7
969.008	89717.1	991.664	85349.3	1014.32	74915.7
969.49	89646.7	992.146	85242.3	1014.8	74689.2
969.972	89562.4	992.628	85133.1	1015.28	74427.8
970.454	89515	993.11	84981.3	1015.76	74144.3
970.936	89457.9	993.593	84820.8	1016.24	73881.1
971.418	89373.5	994.075	84707.7	1016.73	73599.5
971.9	89263.3	994.557	84590.1	1017.21	73347.5
972.382	89139.2	995.039	84495.9	1017.69	73100.6
972.864	89074.5	995.521	84393.8	1018.17	72897.1
973.346	88994.8	996.003	84271	1018.65	72760.7
973.828	88921.8	996.485	84119.1	1019.14	72606.3
974.31	88888.4	996.967	84024.7	1019.62	72378
974.792	88840	997.449	83874.4	1020.1	72163.6
975.274	88757.4	997.931	83658.1	1020.58	71975.6
975.756	88597	998.413	83437	1021.07	71787.7
976.239	88519.2	998.895	83260.9	1021.55	71549

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WN	INT
1022.03	71362.9
1022.51	71188.4
1022.99	70997
1023.48	70898.3
1023.96	70810.2
1024.44	70672.2
1024.92	70459.5
1025.4	70354.2
1025.89	70226.8
1026.37	70081
1026.85	70059.5
1027.33	69923.4
1027.81	69809.2
1028.3	69768.3
1028.78	69642.8
1029.26	69564.4
1029.74	69473.4
1030.22	69441.9
1030.71	69424.4
1031.19	69308.2
1031.67	69202.2
1032.15	69081.8
1032.63	69057.1
1033.12	68963.3
1033.6	68857.6
1034.08	68764.9
1034.56	68665.9
1035.05	68647.6
1035.53	68548
1036.01	68438.4
1036.49	68321.1
1036.97	68261.8
1037.46	68169.9
1037.94	67994.3
1038.42	67893.1
1038.9	67792.2
1039.38	67650.6
1039.87	67566.6
1040.35	67451
1040.83	67281.8
1041.31	67170.2
1041.79	67070.4
1042.28	66919.8
1042.76	66822.5
1043.24	66825.1
1043.72	66720.8
1044.2	66588.7

WN	INT
1044.69	66533.6
1045.17	66548.2
1045.65	66409.5
1046.13	66329.2
1046.61	66246.5
1047.1	66170.8
1047.58	66082.6
1048.06	65954.8
1048.54	65948.2
1049.02	65814.2
1049.51	65768.9
1049.99	65788.4
1050.47	65728.3
1050.95	65597.6
1051.44	65528
1051.92	65487.3
1052.4	65492.7
1052.88	65447.8
1053.36	65416.3
1053.85	65315.1
1054.33	65194
1054.81	65134.9
1055.29	65078.7
1055.77	64977.6
1056.26	64883.5
1056.74	64773
1057.22	64728.3
1057.7	64660.4
1058.18	64550
1058.67	64487.7
1059.15	64356.2
1059.63	64277.2
1060.11	64175.8
1060.59	63997.8
1061.08	63923.5
1061.56	63916.8
1062.04	63836.1
1062.52	63636.1
1063	63455.7
1063.49	63400.2
1063.97	63245.3
1064.45	63097
1064.93	63067.8
1065.41	62886
1065.9	62630.1
1066.38	62564.6
1066.86	62506.2

WN	INT
1067.34	62352.7
1067.83	62229.3
1068.31	62067.6
1068.79	61955.5
1069.27	61865.7
1069.75	61732.4
1070.24	61562.6
1070.72	61366.2
1071.2	61235.8
1071.68	61140.9
1072.16	60977.5
1072.65	60848.6
1073.13	60719
1073.61	60541.1
1074.09	60439.4
1074.57	60335.1
1075.06	60219.4
1075.54	60077.3
1076.02	59980.6
1076.5	59847
1076.98	59665.4
1077.47	59464.1
1077.95	59295.9
1078.43	59136.5
1078.91	58986.5
1079.39	58793.8
1079.88	58609.8
1080.36	58468.9
1080.84	58331.8
1081.32	58136.7
1081.8	57995.2
1082.29	57836
1082.77	57759.7
1083.25	57596.8
1083.73	57413.1
1084.21	57231
1084.7	57098.7
1085.18	56958.7
1085.66	56821.1
1086.14	56645.3
1086.63	56527.9
1087.11	56384.8
1087.59	56239.7
1088.07	56074.5
1088.55	55981.9
1089.04	55895.1
1089.52	55749.2

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WN	INT	WN	INT	WN	INT
1090	55644.2	1112.66	52566.2	1135.31	53077.7
1090.48	55509.9	1113.14	52527.7	1135.79	52611.8
1090.96	55308.7	1113.62	52499.9	1136.28	53178.4
1091.45	55190.7	1114.1	52539.4	1136.76	53235.3
1091.93	55047.3	1114.58	52574.9	1137.24	53104.8
1092.41	54895.2	1115.07	52571.6	1137.72	53178.8
1092.89	54789.3	1115.55	52490.1	1138.21	53225.5
1093.37	54650.3	1116.03	52410.2	1138.69	53260.3
1093.86	54558.9	1116.51	52426.3	1139.17	53330.9
1094.34	54457.1	1116.99	52495.2	1139.65	53361.1
1094.82	54303.3	1117.48	52508.5	1140.13	53312.6
1095.3	54176.4	1117.96	52410.7	1140.62	53272.3
1095.78	54092.4	1118.44	52413.1	1141.1	53224.6
1096.27	53952.1	1118.92	52397.7	1141.58	53206.3
1096.75	53869.6	1119.41	52405.4	1142.06	53142.6
1097.23	53820.3	1119.89	52359.9	1142.54	53180.7
1097.71	53723.1	1120.37	52373.6	1143.03	53126.5
1098.19	53599.2	1120.85	52365.3	1143.51	53100.8
1098.68	53528.3	1121.33	52255.7	1143.99	53085.7
1099.16	53424.1	1121.82	52449.9	1144.47	53038.6
1099.64	53330.3	1122.3	52497.2	1144.95	53008.8
1100.12	53341.5	1122.78	52557.4	1145.44	52953.6
1100.6	53307.7	1123.26	52496.3	1145.92	52949.4
1101.09	53309.8	1123.74	52533.1	1146.4	52917.2
1101.57	53261.4	1124.23	52596.1	1146.88	52868.3
1102.05	53229.2	1124.71	52580.1	1147.36	52828.8
1102.53	53161.3	1125.19	52634.9	1147.85	52799.3
1103.02	53102.1	1125.67	52721.6	1148.33	52780
1103.5	52965.8	1126.15	52766.7	1148.81	52708.1
1103.98	52926.4	1126.64	52801.4	1149.29	52554.4
1104.46	52884.9	1127.12	52808.2	1149.77	52577.3
1104.94	52842.7	1127.6	52800.3	1150.26	52667.3
1105.43	52830.4	1128.08	52841.7	1150.74	52708.2
1105.91	52831.1	1128.56	52842.6	1151.22	52687.5
1106.39	52738.8	1129.05	52908.3	1151.7	52546.4
1106.87	52555.2	1129.53	52957.9	1152.18	52399.8
1107.35	52658	1130.01	53000.2	1152.67	52375.9
1107.84	52709.1	1130.49	52997.2	1153.15	52351.1
1108.32	52692.3	1130.97	53038.7	1153.63	52363.4
1108.8	52675.5	1131.46	53060.7	1154.11	52295.4
1109.28	52670.7	1131.94	53104.9	1154.6	52205.9
1109.76	52706.7	1132.42	53104.5	1155.08	52144.7
1110.25	52717.3	1132.9	53093.2	1155.56	52041.9
1110.73	52725.1	1133.38	53166.2	1156.04	51982.3
1111.21	52747.9	1133.87	53155.6	1156.52	51912.8
1111.69	52695	1134.35	53144.2	1157.01	51872.4
1112.17	52615.4	1134.83	53149.3	1157.49	51922.7

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WN	INT
1157.97	51825.1
1158.45	51705.9
1158.93	51620.9
1159.42	51607.2
1159.9	51582.6
1160.38	51547.1
1160.86	51477.7
1161.34	51354.1
1161.83	51252.5
1162.31	51108
1162.79	51031.2
1163.27	50961.8
1163.75	50883.5
1164.24	50785.2
1164.72	50714.7
1165.2	50564.7
1165.68	50557.7
1166.16	50490.7
1166.65	50447.5
1167.13	50365.1
1167.61	50305
1168.09	50262
1168.57	50142.8
1169.06	50078.2
1169.54	50031
1170.02	49950.1
1170.5	49827
1170.98	49795.3
1171.47	49719.6
1171.95	49616.3
1172.43	49583.2
1172.91	49520.5
1173.4	49440.7
1173.88	49322.8
1174.36	48607.2
1174.84	49161.7
1175.32	49218.1
1175.81	49163.1
1176.29	49104.3
1176.77	49005.8
1177.25	48939
1177.73	48839.9
1178.22	48777.1
1178.7	48730
1179.18	48634.5
1179.66	48571.8
1180.14	48528.9

WN	INT
1180.63	48418.8
1181.11	48336.7
1181.59	48315.3
1182.07	48273.8
1182.55	48210.8
1183.04	48145.8
1183.52	48076
1184	48027.8
1184.48	47931.7
1184.96	47901.9
1185.45	47867
1185.93	47836.3
1186.41	47643.4
1186.89	46925.8
1187.37	47562.5
1187.86	47597.3
1188.34	47564.4
1188.82	47485
1189.3	47441.9
1189.79	47440.9
1190.27	47376.9
1190.75	47303.8
1191.23	47254.9
1191.71	47198.8
1192.2	47176.1
1192.68	47142.7
1193.16	47114.8
1193.64	47049.4
1194.12	47015.9
1194.61	46922.9
1195.09	46844.9
1195.57	46805.6
1196.05	46733.2
1196.53	46696.2
1197.02	46641
1197.5	46583.8
1197.98	46248.1
1198.46	46355.4
1198.94	46528.3
1199.43	46514.2
1199.91	46397.2
1200.39	46292.7
1200.87	46252.2
1201.35	46245.3
1201.84	46254.6
1202.32	46151.1
1202.8	46035.4

WN	INT
1203.28	45942.5
1203.76	45837.5
1204.25	45787.1
1204.73	45745.7
1205.21	45602.1
1205.69	45512.2
1206.18	45454.5
1206.66	45384.4
1207.14	45348.1
1207.62	45263
1208.1	45179.9
1208.59	45093.8
1209.07	45038.8
1209.55	44971.1
1210.03	44877.3
1210.51	44801.8
1211	44606
1211.48	44590.9
1211.96	44259.8
1212.44	43967.7
1212.92	44389.6
1213.41	44405.7
1213.89	44338.1
1214.37	44205.3
1214.85	44160.3
1215.33	44117.7
1215.82	44072.7
1216.3	43992.6
1216.78	43952.5
1217.26	43889.9
1217.74	43817.3
1218.23	43585.5
1218.71	43446.7
1219.19	43582.6
1219.67	43535.6
1220.15	43466.3
1220.64	43393.2
1221.12	43334.4
1221.6	43250.8
1222.08	43223.4
1222.56	43250.3
1223.05	43245.3
1223.53	43161.7
1224.01	43073.8
1224.49	42856.5
1224.98	41894.1
1225.46	42476.3

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Type: 81 deg C BB

WN	INT	WN	INT	WN	INT
1225.94	42595.9	1248.6	38456.2	1271.25	34098
1226.42	42593.2	1249.08	38326.4	1271.73	31748.4
1226.9	42628.6	1249.56	38204.6	1272.22	34460.6
1227.39	42549.8	1250.04	38110.8	1272.7	34734.2
1227.87	42422.9	1250.52	37987.9	1273.18	34753.2
1228.35	42279	1251.01	37793.3	1273.66	34717.5
1228.83	42191.3	1251.49	37587.3	1274.14	34728.4
1229.31	42083.9	1251.97	37388.1	1274.63	34715.6
1229.8	42041.3	1252.45	37160	1275.11	34694.4
1230.28	41978.9	1252.93	36991.5	1275.59	34775.2
1230.76	41882.2	1253.42	36695.2	1276.07	34843.1
1231.24	41816.3	1253.9	36445	1276.56	34698.3
1231.72	41753.3	1254.38	36201	1277.04	34634.2
1232.21	41683.5	1254.86	35884.6	1277.52	34586.3
1232.69	41596.2	1255.34	35584.8	1278	34558.7
1233.17	41531.8	1255.83	35317.2	1278.48	34548.5
1233.65	41456.1	1256.31	34964.6	1278.97	34472.2
1234.13	41381.1	1256.79	34613.7	1279.45	34412.5
1234.62	41254.9	1257.27	34281	1279.93	33888.1
1235.1	41155.9	1257.76	33975.5	1280.41	34267.7
1235.58	41082.8	1258.24	33615	1280.89	34228.2
1236.06	41002.4	1258.72	33214.5	1281.38	34169.5
1236.54	40907.8	1259.2	33096.7	1281.86	34147.3
1237.03	40810.8	1259.68	32702.8	1282.34	34076.7
1237.51	40745.6	1260.17	30800.7	1282.82	34009.1
1237.99	40676.6	1260.65	31704.8	1283.3	33963.1
1238.47	40580.7	1261.13	32336	1283.79	33824.2
1238.95	40450.2	1261.61	32306.1	1284.27	33590.3
1239.44	40449.3	1262.09	32317.5	1284.75	33717.6
1239.92	40353.9	1262.58	32347.1	1285.23	33651.9
1240.4	40257.7	1263.06	32373.9	1285.71	33546.7
1240.88	40154.6	1263.54	32465.6	1286.2	33428.8
1241.37	40059	1264.02	32491.3	1286.68	33361.2
1241.85	39948.6	1264.5	32779.1	1287.16	32195.4
1242.33	39846.8	1264.99	32895.7	1287.64	32282.9
1242.81	39634.9	1265.47	32969.9	1288.12	31922.7
1243.29	39599.2	1265.95	32938.5	1288.61	32797.5
1243.78	39176.8	1266.43	33275.6	1289.09	32810.1
1244.26	38554.8	1266.91	33568.1	1289.57	33041.3
1244.74	39256.5	1267.4	33814.4	1290.05	32845.9
1245.22	39221.4	1267.88	33828.6	1290.53	31899.4
1245.7	39094.2	1268.36	33304.7	1291.02	32972.2
1246.19	39038.9	1268.84	34373.9	1291.5	32857.4
1246.67	38941.8	1269.32	34300	1291.98	32795.7
1247.15	38838.5	1269.81	33098.9	1292.46	32746.7
1247.63	38691.8	1270.29	34190.2	1292.95	32701.5
1248.11	38564.6	1270.77	34542	1293.43	32682.5

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Type: 81 deg C BB

WN	INT	WN	INT	WN	INT
1293.91	32613.3	1316.57	27348.6	1339.22	19720
1294.39	32557	1317.05	24711.9	1339.7	21035.2
1294.87	32507.9	1317.53	28064.4	1340.19	17707.8
1295.36	32442.9	1318.01	28198.5	1340.67	20381.9
1295.84	32369.7	1318.49	26373.3	1341.15	24343.2
1296.32	31757.7	1318.98	22728.4	1341.63	24733.7
1296.8	31524.3	1319.46	27588	1342.11	24828.9
1297.28	32087.5	1319.94	26340.9	1342.6	24870.2
1297.77	32134.1	1320.42	27705.1	1343.08	24910.3
1298.25	32090.5	1320.9	27127.1	1343.56	24866.1
1298.73	32012.1	1321.39	28400.8	1344.04	24774.2
1299.21	31955.5	1321.87	28404	1344.52	24955
1299.69	31885.7	1322.35	28426.7	1345.01	24939.8
1300.18	31822.8	1322.83	28259.3	1345.49	24886.3
1300.66	31750	1323.31	27662.7	1345.97	24899.5
1301.14	31676.8	1323.8	28401.8	1346.45	24913.9
1301.62	31586.4	1324.28	28459.7	1346.94	24835
1302.1	31519.6	1324.76	28427.2	1347.42	24813.5
1302.59	31483.8	1325.24	28387.6	1347.9	24762.1
1303.07	31407.2	1325.72	28332.1	1348.38	24591.6
1303.55	31308.7	1326.21	28248.8	1348.86	23926.8
1304.03	31231.7	1326.69	28319.9	1349.35	22158.6
1304.51	31137.2	1327.17	28246.6	1349.83	24263.3
1305	31007.6	1327.65	28080.9	1350.31	24373.5
1305.48	30694.3	1328.14	28151.7	1350.79	24360
1305.96	30806.6	1328.62	28116.8	1351.27	24258.8
1306.44	30734.6	1329.1	28017.4	1351.76	24150.7
1306.92	30665	1329.58	27633.1	1352.24	23963
1307.41	30582.3	1330.06	27286.8	1352.72	24020
1307.89	29590.9	1330.55	27744.1	1353.2	23925.1
1308.37	29172.1	1331.03	27626.2	1353.68	23782.6
1308.85	30186.8	1331.51	27468.3	1354.17	23416
1309.34	30186	1331.99	27320.4	1354.65	21035.2
1309.82	30060.1	1332.47	27114.9	1355.13	22021.2
1310.3	29965	1332.96	27000.5	1355.61	23152.9
1310.78	29858.8	1333.44	26835.9	1356.09	23147.9
1311.26	29841.5	1333.92	26613.2	1356.58	23007.1
1311.75	29673.4	1334.4	26426.6	1357.06	22783.6
1312.23	27640	1334.88	26283.4	1357.54	22490
1312.71	26771.7	1335.37	26031	1358.02	21056.1
1313.19	27957.4	1335.85	25836	1358.5	22397.8
1313.67	26692.5	1336.33	23569.6	1358.99	22246.1
1314.16	28719.3	1336.81	20966.9	1359.47	22159.1
1314.64	26965.8	1337.29	24967.7	1359.95	21953.8
1315.12	28820.9	1337.78	24349.3	1360.43	21209.2
1315.6	28844.5	1338.26	21628.1	1360.91	16745
1316.08	28529.3	1338.74	19847.5	1361.4	19164.2

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Type: 81 deg C BB

WN	INT	WN	INT	WN	INT
1361.88	20558	1384.54	19726	1407.19	17454
1362.36	17819.7	1385.02	19525.8	1407.67	17567.7
1362.84	14669.3	1385.5	19256.1	1408.16	17487.9
1363.33	14105	1385.98	18023.1	1408.64	17378.1
1363.81	20401.4	1386.46	14817.2	1409.12	17517.3
1364.29	21199.3	1386.95	15899	1409.6	16696
1364.77	21343	1387.43	11140.1	1410.08	15855.4
1365.25	21349.4	1387.91	15416.1	1410.57	17204.2
1365.74	21346.7	1388.39	17896.6	1411.05	16660.6
1366.22	21336.8	1388.87	18437.6	1411.53	14884.9
1366.7	21319.2	1389.36	18466.4	1412.01	15292.7
1367.18	21228.1	1389.84	18283.7	1412.49	16904.7
1367.66	21022.8	1390.32	17962.7	1412.98	16793
1368.15	19591.2	1390.8	17321.6	1413.46	16639.9
1368.63	15980.1	1391.28	17720	1413.94	16472.1
1369.11	20481	1391.77	17867.3	1414.42	16221.4
1369.59	20663.4	1392.25	17684.9	1414.91	15921.3
1370.07	20682.9	1392.73	17484.6	1415.39	15859.6
1370.56	20792.8	1393.21	17013.2	1415.87	13841.9
1371.04	20575.3	1393.69	15507.9	1416.35	13894.8
1371.52	20623.2	1394.18	11096.6	1416.83	13961.9
1372	19907.1	1394.66	10198.7	1417.32	9931.09
1372.48	19630.3	1395.14	14255.1	1417.8	12612.2
1372.97	19346	1395.62	11804	1418.28	12638.1
1373.45	15367.8	1396.1	13806.4	1418.76	8984.64
1373.93	13710.9	1396.59	16215.7	1419.24	6991.97
1374.41	17968.4	1397.07	16141	1419.73	8582.95
1374.89	14706.1	1397.55	13096.2	1420.21	12576.4
1375.38	16947.7	1398.03	14422	1420.69	14098
1375.86	19628.6	1398.52	13977.6	1421.17	14551.2
1376.34	19986	1399	9795.74	1421.65	14791.8
1376.82	20031.6	1399.48	11946.7	1422.14	14817.8
1377.3	20000.7	1399.96	15779.9	1422.62	14584.9
1377.79	18374.1	1400.44	16553.1	1423.1	13423.5
1378.27	18841.7	1400.93	16803.5	1423.58	9945.1
1378.75	19880.9	1401.41	16965.5	1424.06	10398.7
1379.23	19335.7	1401.89	17011.7	1424.55	14585.6
1379.72	18463.7	1402.37	17060.7	1425.03	15436.5
1380.2	19911.5	1402.85	17028.6	1425.51	15598.5
1380.68	20209.1	1403.34	16783.1	1425.99	15610.1
1381.16	20226.3	1403.82	16723.9	1426.47	15654.3
1381.64	20041.4	1404.3	15536	1426.96	15714.4
1382.13	19741.3	1404.78	11565.7	1427.44	15668.8
1382.61	20082.3	1405.26	13238.5	1427.92	15002.2
1383.09	19929.7	1405.75	16732.2	1428.4	14249.6
1383.57	19855.1	1406.23	17288.5	1428.88	15039.6
1384.05	19830	1406.71	17410.5	1429.37	13226.5



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Type: 81 deg C BB

WN	INT
1429.85	9371.59
1430.33	12499.8
1430.81	14543.3
1431.3	14892.6
1431.78	14121.9
1432.26	14365.2
1432.74	14098.3
1433.22	11992.7
1433.71	14179.1
1434.19	14504.2
1434.67	14204.4
1435.15	13178
1435.63	10644
1436.12	9395.15
1436.6	6653.42
1437.08	8582.83
1437.56	12417.3
1438.04	14001.5
1438.53	14602.5
1439.01	14897.3
1439.49	15079.2
1439.97	15196.7
1440.45	15244.2
1440.94	15299
1441.42	15221.9
1441.9	15526.9
1442.38	15516.8
1442.86	15485.5
1443.35	15576.8
1443.83	15575
1444.31	15568.9
1444.79	15233.7
1445.27	14967.8
1445.76	15210.8
1446.24	14555
1446.72	14267.1
1447.2	13233.3
1447.68	9597.37
1448.17	9791.81
1448.65	13394.2
1449.13	14115.4
1449.61	14205.5
1450.1	14152.7

Filenam LMA0126  
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT	WN	INT
750.173	36451.5	772.83	40885.1	795.486	42283.2
750.655	36418.8	773.312	40918.6	795.969	42533.9
751.137	36963.1	773.794	41070.9	796.451	42124.3
751.619	37048.7	774.276	41354	796.933	41837.2
752.101	37299.9	774.758	41426.2	797.415	42066.9
752.583	37454.7	775.24	41958	797.897	41917.5
753.066	37577.9	775.722	42339.1	798.379	42155.6
753.548	37606.8	776.204	41914	798.861	42201.4
754.03	38011.2	776.686	42318.7	799.343	41765.4
754.512	38174.8	777.168	42612.8	799.825	41365.4
754.994	38113.6	777.65	42090.3	800.307	41156.6
755.476	38056.7	778.132	41952.8	800.789	40990.9
755.958	38514	778.614	42060.2	801.271	40925.6
756.44	38121.4	779.097	42592.6	801.753	41011
756.922	38254.1	779.579	42605.3	802.235	41025.7
757.404	38660.4	780.061	42109.5	802.717	41462.2
757.886	38316.7	780.543	42125.8	803.199	41872.3
758.368	38365	781.025	42051.3	803.681	41957.9
758.85	38938.4	781.507	42104.2	804.163	41226.2
759.332	38574.1	781.989	42245.6	804.646	41104.6
759.814	38608.5	782.471	42219.1	805.128	40871
760.296	39212.7	782.953	42350.9	805.61	40919.8
760.778	39030.1	783.435	42581.6	806.092	41640.3
761.26	38909.1	783.917	42982.5	806.574	41362.8
761.743	39401.2	784.399	43392	807.056	41144.2
762.225	39077.7	784.881	43032.3	807.538	41356.2
762.707	39069.8	785.363	42550.1	808.02	42321.3
763.189	39456.3	785.845	42307.6	808.502	42191.6
763.671	39320.4	786.327	42190.1	808.984	41557.9
764.153	39280.1	786.809	42202.5	809.466	41738.4
764.635	39570.4	787.292	42088.9	809.948	41680.7
765.117	39564.4	787.774	42115.1	810.43	41773.2
765.599	39463.1	788.256	41988.5	810.912	42056.5
766.081	39749.2	788.738	41963.6	811.394	42004.4
766.563	39854.3	789.22	41928.2	811.876	42149.4
767.045	39934.8	789.702	41947.2	812.358	42388.4
767.527	40278.7	790.184	41873.2	812.84	42449.6
768.009	40165.1	790.666	41866.4	813.322	42715.7
768.491	40255.4	791.148	41896.8	813.805	43772.3
768.973	40960.9	791.63	42554	814.287	43709.1
769.455	40551.4	792.112	42427.1	814.769	43713.7
769.937	40938.9	792.594	42044.9	815.251	43030.9
770.42	40778.6	793.076	41993.1	815.733	43033
770.902	40526.2	793.558	42293.2	816.215	42979.8
771.384	40575.7	794.04	42655.8	816.697	43088.1
771.866	40691.9	794.522	42013	817.179	43144
772.348	40752.7	795.004	41973.7	817.661	43045.9

Filenam LMA0126  
Subfile: 0001

Type: OFF STACK

WN	INT
818.143	43108.2
818.625	43273.3
819.107	43292.5
819.589	43374.6
820.071	43521
820.553	43586.9
821.035	43640.2
821.517	43770.3
822	43951.3
822.482	44105.7
822.964	44228.2
823.446	44386.1
823.928	44508.2
824.41	44737.9
824.892	45336.2
825.374	45832.1
825.856	45214.8
826.338	45362.1
826.82	45835.8
827.302	46619.5
827.784	47332.1
828.266	46449.6
828.748	46304.1
829.23	46394.5
829.712	46531.3
830.194	46647.9
830.677	46874.2
831.159	46937
831.641	47076.8
832.123	47186.4
832.605	47414.4
833.087	47560.8
833.569	47688.4
834.051	47882.6
834.533	48059.1
835.015	48197.9
835.497	49201.3
835.979	48500.1
836.461	48477.2
836.943	48632.3
837.425	48773.4
837.907	48938.4
838.389	48976.6
838.871	49138.1
839.353	49567.6
839.836	50989.1
840.318	50609

WN	INT
840.8	49563.1
841.282	49664
841.764	50184
842.246	49882.6
842.728	49696.5
843.21	49740.6
843.692	49805.6
844.174	49864.3
844.656	49955
845.138	50071.3
845.62	50323.8
846.102	50241.6
846.584	50319.8
847.066	50367.9
847.548	50476.1
848.03	50525.8
848.513	50714.9
848.995	51126.2
849.477	52449.4
849.959	51811.1
850.441	51126.9
850.923	51135.3
851.405	51249.3
851.887	51738.2
852.369	52863.6
852.851	52831.3
853.333	52284.9
853.815	51595.5
854.297	52212.1
854.779	52660.9
855.261	51401.6
855.743	50982.3
856.225	50830.8
856.707	50755.2
857.19	50725.7
857.672	50654.1
858.154	50638.8
858.636	51503
859.118	50668.8
859.6	51085.8
860.082	50611.8
860.564	50553.7
861.046	50559.3
861.528	50541.7
862.01	50556.9
862.492	50650.5
862.974	50640.6

WN	INT
863.456	50656
863.938	50732.4
864.42	50881.3
864.902	52085.3
865.384	52580.9
865.867	51406.4
866.349	50998.4
866.831	50939.7
867.313	50952.3
867.795	51049.6
868.277	50975.9
868.759	50991.6
869.241	51080.5
869.723	51142.9
870.205	51268.8
870.687	51637.5
871.169	53211.2
871.651	52329.8
872.133	51509.2
872.615	51409.6
873.097	51382.9
873.579	51385.1
874.061	51441.6
874.544	51481.4
875.026	51505.4
875.508	51555.9
875.99	51783.9
876.472	51702.2
876.954	51752.8
877.436	51844.8
877.918	52040.4
878.4	53475.5
878.882	52886
879.364	52093
879.846	52021.9
880.328	52012
880.81	52373.1
881.292	52865.7
881.774	52247.7
882.256	52257.3
882.738	52452.9
883.221	53521.5
883.703	54029.1
884.185	53367.6
884.667	52648.7
885.149	52566.5
885.631	52588.5

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
886.113	52724	908.769	54862	931.426	51487.9
886.595	53067.5	909.252	54638.6	931.908	51486.7
887.077	54595	909.734	53237.4	932.39	51499.8
887.559	54020.5	910.216	53696	932.872	51636.4
888.041	53129.3	910.698	53180.7	933.354	51172.3
888.523	54194.7	911.18	52635.4	933.836	51117.6
889.005	53154.6	911.662	52566.9	934.318	51077.3
889.487	52771.6	912.144	52555	934.801	51467.5
889.969	53558	912.626	52485.2	935.283	51097.7
890.451	52845.9	913.108	52461.7	935.765	50978.4
890.933	52737.7	913.59	52528	936.247	50946.3
891.415	53790.5	914.072	53774.7	936.729	51467.2
891.898	52706.1	914.554	52537.1	937.211	51232.9
892.38	52662	915.036	52447.2	937.693	50926.2
892.862	52588.8	915.518	52368.4	938.175	51013.7
893.344	52549.1	916	52365.9	938.657	51525.2
893.826	52537.9	916.482	52471.6	939.139	50825.3
894.308	52496.5	916.964	52328.3	939.621	50869.4
894.79	52513.9	917.446	52340	940.103	50949.9
895.272	52526	917.929	52379.6	940.585	51708
895.754	52573.2	918.411	53736.1	941.067	52394.5
896.236	52551.2	918.893	52424.2	941.549	50903.3
896.718	52640.5	919.375	52309.9	942.031	50907.2
897.2	52432.3	919.857	52340	942.513	51460.3
897.682	53294.7	920.339	52298.2	942.995	50750.5
898.164	52469.1	920.821	52500.6	943.478	50740.1
898.646	52378.6	921.303	53489.6	943.96	51173
899.128	52404.6	921.785	53402.3	944.442	51457.9
899.61	52389.6	922.267	54660.2	944.924	52186.1
900.092	52427.9	922.749	52752.1	945.406	50714.7
900.575	52454.3	923.231	52414.5	945.888	51377.1
901.057	52467.5	923.713	52210	946.37	50767
901.539	52449.9	924.195	52214.7	946.852	51110.8
902.021	52474.4	924.677	52983.1	947.334	50856
902.503	52630.1	925.159	54079.6	947.816	52133.7
902.985	52571	925.641	52617.7	948.298	53632.1
903.467	52512.7	926.124	52032.7	948.78	51457.1
903.949	52568.1	926.606	51874.4	949.262	51073.4
904.431	52630.9	927.088	52125	949.744	50844.3
904.913	52699.5	927.57	51901.4	950.226	50419.2
905.395	53149.3	928.052	51745.5	950.708	50313.2
905.877	52814.8	928.534	52045.1	951.19	51143.2
906.359	54311.5	929.016	52774	951.672	50306.9
906.841	53491	929.498	51584.1	952.155	50199.7
907.323	52795.6	929.98	51676.1	952.637	50491.6
907.805	53048.1	930.462	51570.8	953.119	51369
908.287	53470.6	930.944	51928.3	953.601	51342

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Type: OFF STACK

WN	INT
954.083	50705.4
954.565	50777.1
955.047	50999.7
955.529	51513.2
956.011	50394.7
956.493	49771.1
956.975	49550
957.457	49552.7
957.939	49832.6
958.421	49367.1
958.903	49688.7
959.385	50455.1
959.867	50201.3
960.349	49398.7
960.832	49308.7
961.314	49140
961.796	49433.1
962.278	48998
962.76	48856.8
963.242	49226.8
963.724	48838.1
964.206	48771.2
964.688	49320.5
965.17	48836.9
965.652	49177.1
966.134	49912.1
966.616	49296.7
967.098	49679.4
967.58	49376
968.062	48742
968.544	48386.8
969.026	49046.1
969.509	48445.1
969.991	48436.6
970.473	49622.3
970.955	48620.1
971.437	50406.7
971.919	49762.9
972.401	48485
972.883	48303.4
973.365	50213.5
973.847	49646.8
974.329	48606.2
974.811	48592.5
975.293	48086.7
975.775	49842.5
976.257	49057.7

WN	INT
976.739	47820
977.221	49206.7
977.703	48389.8
978.186	47530.6
978.668	47821.9
979.15	47102.8
979.632	47589.7
980.114	46814.4
980.596	46755.5
981.078	47096.5
981.56	47087.6
982.042	47177.5
982.524	46263.8
983.006	46298.2
983.488	46372.2
983.97	46776.5
984.452	46568.4
984.934	45842.5
985.416	46047
985.898	45622.9
986.38	45661.2
986.863	45501.5
987.345	45430.4
987.827	45414.5
988.309	45253.6
988.791	45438
989.273	45096
989.755	45132.7
990.237	45482.6
990.719	45007.8
991.201	44775.4
991.683	44872.4
992.165	44660.6
992.647	44798.1
993.129	44527.5
993.611	44381
994.093	44420.8
994.575	44594.6
995.057	44251.1
995.54	44237
996.022	44060.7
996.504	43900.5
996.986	44018.5
997.468	43881.2
997.95	43794.9
998.432	43984.2
998.914	45259.9

WN	INT
999.396	43683.9
999.878	43672.3
1000.36	44959
1000.84	43512.4
1001.32	43306
1001.8	43038.3
1002.28	43091.3
1002.77	42741.5
1003.25	42896.2
1003.73	43832.8
1004.21	42838.7
1004.69	42746.1
1005.18	42146.2
1005.66	42181
1006.14	42075.2
1006.62	41893.9
1007.1	42375.4
1007.59	41864.7
1008.07	41557.8
1008.55	41478.5
1009.03	41318.9
1009.51	41629.3
1010	43093.5
1010.48	41720.8
1010.96	42383.4
1011.44	40973.6
1011.92	40903.9
1012.41	40497.9
1012.89	40284.7
1013.37	40299.1
1013.85	40315.5
1014.34	41957.4
1014.82	40967.6
1015.3	39873.5
1015.78	39586
1016.26	39387.2
1016.75	39369.1
1017.23	39430.2
1017.71	40707.3
1018.19	39469.7
1018.67	38851
1019.16	38618.2
1019.64	38722.7
1020.12	38344.2
1020.6	38150.7
1021.08	38203.4
1021.57	37836.7

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1022.05	38188.8	1044.71	34475	1067.36	32161.9
1022.53	37827.9	1045.19	34945.4	1067.84	31698.6
1023.01	37915.7	1045.67	34307.4	1068.33	31346.2
1023.49	37669.5	1046.15	34702.1	1068.81	31541.7
1023.98	37588.6	1046.63	35076.3	1069.29	31280.4
1024.46	37589.9	1047.12	34719.2	1069.77	30853.3
1024.94	37624.7	1047.6	34763.6	1070.25	31177
1025.42	37531.8	1048.08	34870.4	1070.74	30970.4
1025.91	37264.6	1048.56	35073.6	1071.22	30510.3
1026.39	37240.9	1049.04	35443.5	1071.7	30946.1
1026.87	37326.8	1049.53	35625.2	1072.18	30894.2
1027.35	37383	1050.01	34885.5	1072.66	31828.7
1027.83	37216.3	1050.49	35443.2	1073.15	31007.8
1028.32	38661.7	1050.97	35455.1	1073.63	30521
1028.8	38031.9	1051.45	35681.1	1074.11	31719.2
1029.28	37899.3	1051.94	35063	1074.59	32179.5
1029.76	38295.3	1052.42	35026.4	1075.07	30348.5
1030.24	37191.5	1052.9	34780.3	1075.56	29902.1
1030.73	37558.4	1053.38	34810.2	1076.04	30994.3
1031.21	36961.6	1053.86	35215.1	1076.52	29526.8
1031.69	36819.7	1054.35	34612.8	1077	29658.1
1032.17	37190.7	1054.83	34769.2	1077.48	29843.1
1032.65	37159.7	1055.31	35173.1	1077.97	29038.6
1033.14	36806.3	1055.79	35136.6	1078.45	29626.6
1033.62	36672.9	1056.27	34674	1078.93	28996.4
1034.1	36397.3	1056.76	34040.9	1079.41	28758.9
1034.58	36238.9	1057.24	34784.2	1079.9	29510.5
1035.06	36181	1057.72	34185.5	1080.38	28531
1035.55	36356.5	1058.2	34119.8	1080.86	28811.4
1036.03	35899.4	1058.68	34675	1081.34	29365.1
1036.51	35909.1	1059.17	34113.5	1081.82	28316.2
1036.99	35854.1	1059.65	34012.4	1082.31	28881.6
1037.47	36217	1060.13	35075.1	1082.79	27954.6
1037.96	35880.2	1060.61	33920.8	1083.27	28287.9
1038.44	35802.1	1061.1	33515.9	1083.75	28108.6
1038.92	35655.4	1061.58	33439	1084.23	27930.2
1039.4	36914.4	1062.06	33292.1	1084.72	28529.6
1039.88	35746.5	1062.54	34435.5	1085.2	28426.7
1040.37	35411.8	1063.02	33110.8	1085.68	28729.8
1040.85	35389.2	1063.51	32977.7	1086.16	27577.8
1041.33	35750.9	1063.99	32483.4	1086.64	27552.2
1041.81	34900.2	1064.47	32650.8	1087.13	27480.7
1042.29	34945.3	1064.95	32491.3	1087.61	27380.1
1042.78	35111.2	1065.43	32912.4	1088.09	27787.6
1043.26	35068.7	1065.92	34187.7	1088.57	27100.4
1043.74	34188.8	1066.4	34190.6	1089.05	27259.2
1044.22	34172.8	1066.88	32701.5	1089.54	26959.6

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1090.02	27211.2	1112.68	25359.2	1135.33	27623.2
1090.5	27294.3	1113.16	25087.7	1135.81	27829.3
1090.98	28728.2	1113.64	24944.7	1136.3	27475.6
1091.46	28635.7	1114.12	24906.1	1136.78	27140.4
1091.95	27219.1	1114.6	25145.1	1137.26	27665.9
1092.43	26629.8	1115.09	24898.5	1137.74	27383.2
1092.91	26504.9	1115.57	24848.1	1138.22	26329.9
1093.39	26320.7	1116.05	24791.3	1138.71	25715
1093.87	26260.1	1116.53	24895.3	1139.19	25424.5
1094.36	26139.3	1117.01	24893.6	1139.67	25293.2
1094.84	26137	1117.5	25945.7	1140.15	25379.6
1095.32	26034.2	1117.98	25118.7	1140.63	25154.3
1095.8	25960.1	1118.46	24997.4	1141.12	25112.4
1096.29	25973.3	1118.94	24877.8	1141.6	26030.5
1096.77	25924.9	1119.42	24903.6	1142.08	24957
1097.25	25819.5	1119.91	25092.4	1142.56	24739.3
1097.73	25831.8	1120.39	25923.6	1143.04	24797.7
1098.21	25807.4	1120.87	27108	1143.53	24878.1
1098.7	25998.9	1121.35	27169.3	1144.01	24712.3
1099.18	26650.7	1121.83	26062.2	1144.49	24696.6
1099.66	28069.5	1122.32	25305	1144.97	24682.6
1100.14	26794.2	1122.8	24894.2	1145.45	24751.8
1100.62	26291.9	1123.28	24715.8	1145.94	24780.7
1101.11	27252.1	1123.76	25116.2	1146.42	24649.4
1101.59	27910.2	1124.24	24596.8	1146.9	24929.1
1102.07	26430	1124.73	24515.6	1147.38	24797.6
1102.55	26085.1	1125.21	24435.5	1147.87	25133.5
1103.03	25876.4	1125.69	24520.7	1148.35	25210.8
1103.52	25854.5	1126.17	24462.3	1148.83	25968.6
1104	25641.8	1126.65	24383.1	1149.31	27068.9
1104.48	25647.7	1127.14	24457	1149.79	26699.7
1104.96	25868.9	1127.62	24387.1	1150.28	25674.3
1105.44	25835	1128.1	24410.5	1150.76	25447.7
1105.93	26303.1	1128.58	24464.7	1151.24	26257.8
1106.41	27482.1	1129.06	24475.9	1151.72	26701.7
1106.89	27831.4	1129.55	24670.6	1152.2	26721.3
1107.37	26624.4	1130.03	24963.2	1152.69	26657.9
1107.85	25821.4	1130.51	24740.3	1153.17	25767.7
1108.34	25788.2	1130.99	24738.6	1153.65	24847.1
1108.82	25405.2	1131.48	24869.4	1154.13	24760.1
1109.3	25267.6	1131.96	25192.9	1154.61	25081.6
1109.78	25256	1132.44	25123.1	1155.1	24637.4
1110.26	25626.8	1132.92	25436	1155.58	24250.6
1110.75	25909.3	1133.4	25632.2	1156.06	24080.1
1111.23	27076.4	1133.89	25933	1156.54	24133.2
1111.71	27331.6	1134.37	26308.1	1157.02	23871.5
1112.19	26001.1	1134.85	26904.3	1157.51	23944.6

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1157.99	23985.2	1180.64	23993.9	1203.3	21406.5
1158.47	23936.8	1181.13	23607.1	1203.78	21342.6
1158.95	24006.9	1181.61	23037.8	1204.27	21169.6
1159.43	23675.6	1182.09	22883.6	1204.75	21317
1159.92	23893.6	1182.57	22933	1205.23	21595.6
1160.4	23760.1	1183.06	22852.1	1205.71	21772.6
1160.88	23931.2	1183.54	23015.4	1206.19	22542.3
1161.36	23803.1	1184.02	23692	1206.68	21639
1161.84	23987.7	1184.5	23220.9	1207.16	21756.8
1162.33	23922.4	1184.98	23289.6	1207.64	21460.1
1162.81	23992	1185.47	23809.2	1208.12	21437.9
1163.29	23914.6	1185.95	24041.6	1208.6	21994.2
1163.77	24493.4	1186.43	24374.2	1209.09	22081.7
1164.26	24569.6	1186.91	24567.3	1209.57	22040.3
1164.74	25395.7	1187.39	24470.7	1210.05	22219.6
1165.22	25950.6	1187.88	24122.6	1210.53	22467.3
1165.7	25827.7	1188.36	23647.4	1211.01	22874.1
1166.18	25378.5	1188.84	23252.8	1211.5	22915.6
1166.67	24525.3	1189.32	22900.7	1211.98	22961.6
1167.15	24490.3	1189.8	22743.6	1212.46	22989.3
1167.63	23881.9	1190.29	23027.7	1212.94	22832.5
1168.11	23783.1	1190.77	22848.2	1213.42	22499.7
1168.59	23762.7	1191.25	23610.4	1213.91	22172
1169.08	24123.5	1191.73	22759.5	1214.39	22000.2
1169.56	23953.9	1192.21	22455.2	1214.87	22387.1
1170.04	24367.6	1192.7	22616.7	1215.35	22186.3
1170.52	23914.2	1193.18	22499.2	1215.83	21849.6
1171	24201	1193.66	22886.1	1216.32	21845.4
1171.49	24418.1	1194.14	22066.9	1216.8	21612.3
1171.97	24227.3	1194.62	21987.9	1217.28	21744.8
1172.45	24474.1	1195.11	22350.5	1217.76	22144.6
1172.93	24830.3	1195.59	22373.7	1218.25	22501.3
1173.41	25306.2	1196.07	22601.9	1218.73	22506
1173.9	25500.6	1196.55	22444.3	1219.21	22157.7
1174.38	25591.9	1197.03	22715.7	1219.69	21799.1
1174.86	25535.1	1197.52	23232.1	1220.17	21873.3
1175.34	25193.9	1198	23588.1	1220.66	21825.4
1175.82	24758.9	1198.48	23516.3	1221.14	21919.4
1176.31	24581.5	1198.96	23031.4	1221.62	21596.1
1176.79	24362.6	1199.45	22530	1222.1	21483.7
1177.27	23849.2	1199.93	22097.1	1222.58	21674
1177.75	23513.6	1200.41	21771.3	1223.07	21412.9
1178.23	23607.1	1200.89	21850.5	1223.55	21516.2
1178.72	24073.5	1201.37	21842.4	1224.03	21714
1179.2	23309	1201.86	21553.4	1224.51	21885.3
1179.68	23029.3	1202.34	21484.7	1224.99	21971.8
1180.16	23258.9	1202.82	21385.4	1225.48	21921.3



Filename LMA0126  
Subfile: 0001

Type: OFF STACK

WN	INT
1225.96	21744.6
1226.44	21421.5
1226.92	21261.5
1227.4	20773
1227.89	20401
1228.37	20312.8
1228.85	20623.6
1229.33	20938.9
1229.81	20410.9
1230.3	20376.6
1230.78	19675.1
1231.26	19493
1231.74	19473
1232.22	19444.8
1232.71	19790.6
1233.19	19842.5
1233.67	19544.8
1234.15	19252.2
1234.64	19228.1
1235.12	19351.5
1235.6	19432.8
1236.08	20194
1236.56	20163.9
1237.05	20427.6
1237.53	20084.8
1238.01	19821.7
1238.49	19789.2
1238.97	20356.1
1239.46	20361.2
1239.94	20293
1240.42	19989.8
1240.9	20089.8
1241.38	19842.4
1241.87	19983.5
1242.35	20051.9
1242.83	20321.3
1243.31	20269.4
1243.79	20302.1
1244.28	20278.3
1244.76	20179.7
1245.24	19952
1245.72	19716
1246.2	19513.9
1246.69	19529.7
1247.17	19117.9
1247.65	19419.6
1248.13	19368.4

WN	INT
1248.61	19394.4
1249.1	19187.4
1249.58	19082.6
1250.06	18848.5
1250.54	18676.5
1251.02	18862.7
1251.51	18963.8
1251.99	18703.8
1252.47	18821.3
1252.95	18422.5
1253.44	18675
1253.92	18534.4
1254.4	18355.8
1254.88	18230.2
1255.36	17901
1255.85	17765.6
1256.33	17675.5
1256.81	17680.9
1257.29	17580.9
1257.77	17365.1
1258.26	17358.6
1258.74	17333
1259.22	17161.7
1259.7	17143.2
1260.18	16972.6
1260.67	16980.9
1261.15	16903.9
1261.63	16818.8
1262.11	16769
1262.59	16694.6
1263.08	16771.7
1263.56	16859.2
1264.04	17031.8
1264.52	16957.3
1265	17103.6
1265.49	17280
1265.97	17354.1
1266.45	17463.2
1266.93	17489.4
1267.41	17552.6
1267.9	17641.7
1268.38	17738.5
1268.86	17820.9
1269.34	17863.6
1269.83	17829.7
1270.31	17901.3
1270.79	17899.9

WN	INT
1271.27	17935.7
1271.75	17756.3
1272.24	18006.5
1272.72	17966.2
1273.2	17907.6
1273.68	17846
1274.16	17731.8
1274.65	17692
1275.13	17684.5
1275.61	17598.4
1276.09	17509.8
1276.57	17635.4
1277.06	17559.2
1277.54	17536
1278.02	17438.3
1278.5	17343.8
1278.98	17398.9
1279.47	17487.2
1279.95	17614
1280.43	17561.1
1280.91	17486.1
1281.39	17452.8
1281.88	17322.7
1282.36	17237.9
1282.84	17302.7
1283.32	17308.9
1283.8	17335.9
1284.29	17380.8
1284.77	17227.1
1285.25	17124.5
1285.73	17170.5
1286.22	17211.5
1286.7	17182.7
1287.18	17181
1287.66	17156.6
1288.14	17117.4
1288.63	17162.3
1289.11	17069.4
1289.59	16969.6
1290.07	16954.9
1290.55	16946.2
1291.04	16864.2
1291.52	16776.3
1292	16697.4
1292.48	16710.6
1292.96	16689.4
1293.45	16606.4

Filenam LMA0126  
Subfile: 0001

Type: OFF STACK

WN	INT	WN	INT	WN	INT
1293.93	16557.8	1316.58	15026.7	1339.24	12773.7
1294.41	16482.9	1317.07	14725.1	1339.72	13028.9
1294.89	16495.2	1317.55	15029.6	1340.21	12454.6
1295.37	16475	1318.03	14977.8	1340.69	12733.5
1295.86	16435.5	1318.51	14848.4	1341.17	13274.8
1296.34	16498.7	1318.99	14358.7	1341.65	13280.3
1296.82	16496.5	1319.48	14893	1342.13	13239.6
1297.3	16433.1	1319.96	14788.8	1342.62	13186.8
1297.78	16347	1320.44	14883.6	1343.1	13156.7
1298.27	16241.2	1320.92	14793.8	1343.58	13133.6
1298.75	16136.1	1321.41	14804.3	1344.06	13093.8
1299.23	16136.5	1321.89	14768.9	1344.54	13039.3
1299.71	16150.6	1322.37	14717.7	1345.03	13001.9
1300.19	16104.2	1322.85	14727.5	1345.51	12964.9
1300.68	16017.9	1323.33	14715.3	1345.99	12949.6
1301.16	16027.1	1323.82	14640.3	1346.47	12881.2
1301.64	16029.4	1324.3	14609.6	1346.95	12870.1
1302.12	15980.1	1324.78	14562.6	1347.44	12820.3
1302.6	15944.4	1325.26	14501.2	1347.92	12787.4
1303.09	15933.4	1325.74	14512.8	1348.4	12784.6
1303.57	15924.2	1326.23	14505.8	1348.88	12746.8
1304.05	15861.5	1326.71	14425	1349.36	12608
1304.53	15847.4	1327.19	14459.6	1349.85	12707.3
1305.02	15829.1	1327.67	14457.8	1350.33	12646.7
1305.5	15854.2	1328.15	14374.4	1350.81	12583.6
1305.98	15803.2	1328.64	14285.5	1351.29	12570.8
1306.46	15750.6	1329.12	14293.7	1351.77	12536.2
1306.94	15699.3	1329.6	14298.3	1352.26	12503.5
1307.43	15678.8	1330.08	14239.1	1352.74	12448.7
1307.91	15677.6	1330.56	14163.1	1353.22	12390.7
1308.39	15613	1331.05	14070.1	1353.7	12353.6
1308.87	15588.7	1331.53	14047.8	1354.18	12291.1
1309.35	15523.5	1332.01	14056.5	1354.67	12116.1
1309.84	15498.2	1332.49	14052.4	1355.15	12175
1310.32	15424	1332.97	14009.4	1355.63	12209.3
1310.8	15397.7	1333.46	13966.6	1356.11	12158
1311.28	15383.5	1333.94	13869.2	1356.6	12106.9
1311.76	15399.5	1334.42	13841.3	1357.08	12051.7
1312.25	15283.8	1334.9	13811.1	1357.56	11987.1
1312.73	15179	1335.38	13797	1358.04	11873.9
1313.21	15293.1	1335.87	13757.7	1358.52	11969.9
1313.69	15141.9	1336.35	13461.8	1359.01	11909.9
1314.17	15227.4	1336.83	13051.6	1359.49	11857.9
1314.66	15069.6	1337.31	13597.4	1359.97	11828.9
1315.14	15187.8	1337.8	13507.4	1360.45	11720.5
1315.62	15155.7	1338.28	13133.4	1360.93	10871.4
1316.1	15130.6	1338.76	12832.9	1361.42	11500

Filenam LMA0126  
Subfile: 0001

Type: OFF STACK

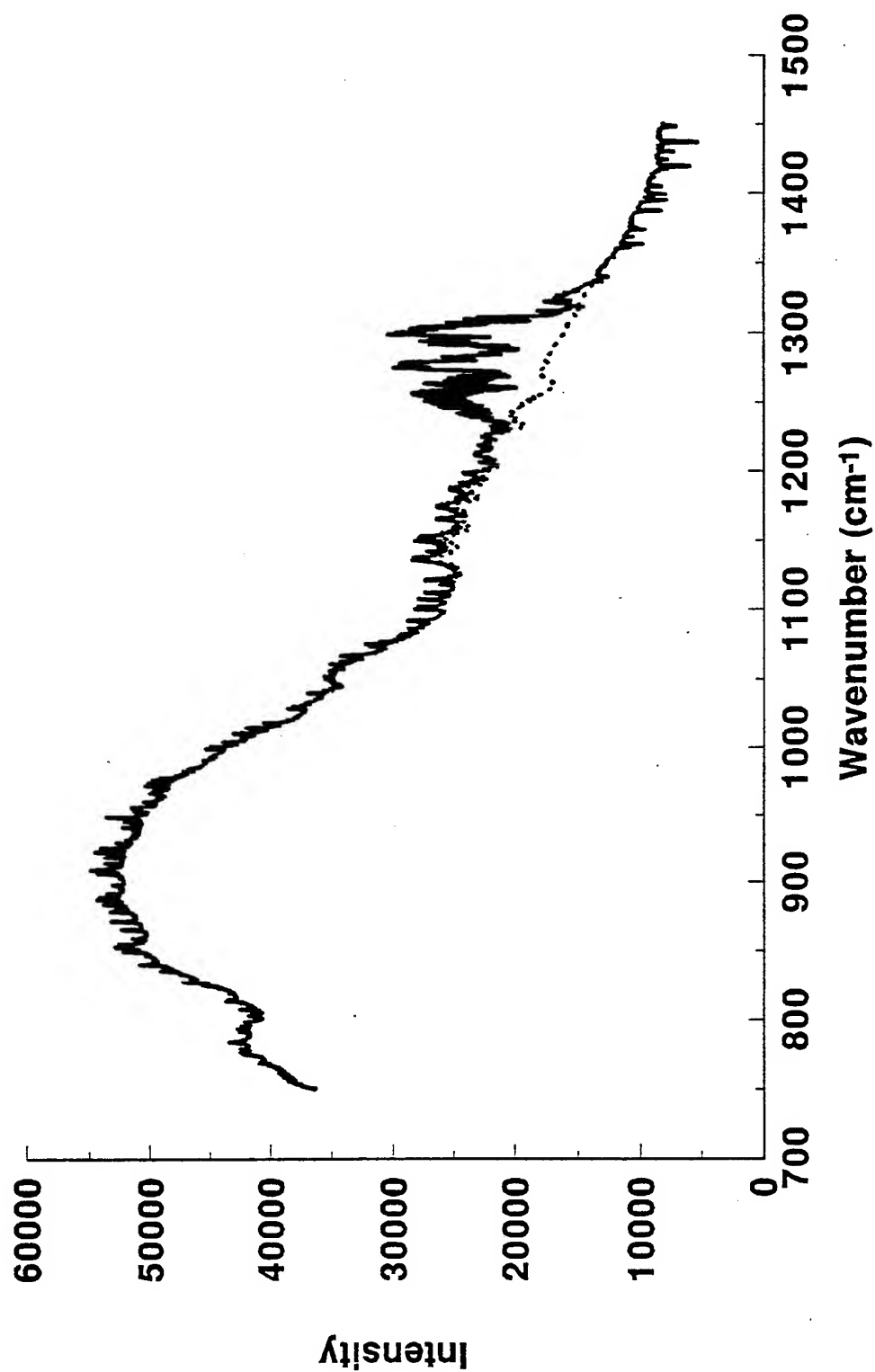
WN	INT	WN	INT	WN	INT
1361.9	11626.5	1384.55	10569.3	1407.21	9391.92
1362.38	11302.7	1385.04	10520.6	1407.69	9386.81
1362.86	10642.6	1385.52	10465.8	1408.18	9367.66
1363.34	9928.86	1386	10320.7	1408.66	9341.03
1363.83	11515.3	1386.48	9917.24	1409.14	9320.09
1364.31	11561.8	1386.96	9959.75	1409.62	9259.54
1364.79	11529.2	1387.45	8289.19	1410.1	9157.78
1365.27	11521.5	1387.93	9895.75	1410.59	9235.81
1365.75	11508.5	1388.41	10229.4	1411.07	9173.47
1366.24	11473.4	1388.89	10215.2	1411.55	9010.75
1366.72	11433.8	1389.37	10177.5	1412.03	9025.6
1367.2	11411.7	1389.86	10133.4	1412.51	9096.34
1367.68	11390.2	1390.34	10073.4	1413	9040.88
1368.16	11231.1	1390.82	10019.3	1413.48	9021.84
1368.65	10661.8	1391.3	9997.9	1413.96	8972.58
1369.13	11344	1391.79	9996.51	1414.44	8922.53
1369.61	11331.8	1392.27	9954.48	1414.92	8870.07
1370.09	11287.3	1392.75	9930.55	1415.41	8836.57
1370.57	11275.9	1393.23	9864.22	1415.89	8605.69
1371.06	11259.6	1393.71	9709.2	1416.37	8601.58
1371.54	11214.2	1394.2	8537.09	1416.85	8557.21
1372.02	11144.3	1394.68	7910.94	1417.33	7728.14
1372.5	11117.5	1395.16	9424.57	1417.82	8366.18
1372.99	11057.3	1395.64	8893.25	1418.3	8436.65
1373.47	10356.7	1396.12	9307.13	1418.78	7461.35
1373.95	9725.35	1396.61	9625.5	1419.26	5940.61
1374.43	10807	1397.09	9586.14	1419.74	6659.34
1374.91	10292.5	1397.57	9137.18	1420.23	8299.76
1375.4	10632.8	1398.05	9334.38	1420.71	8494.29
1375.88	10915.6	1398.53	9300.22	1421.19	8542.87
1376.36	10919.3	1399.02	8056.7	1421.67	8545.8
1376.84	10910.2	1399.5	8585.65	1422.15	8561.39
1377.32	10881.5	1399.98	9416.84	1422.64	8540.86
1377.81	10718.1	1400.46	9484.77	1423.12	8439.77
1378.29	10747.9	1400.94	9491.93	1423.6	7835.48
1378.77	10817.1	1401.43	9509.49	1424.08	7775.24
1379.25	10769.2	1401.91	9494.72	1424.57	8580.86
1379.73	10656.5	1402.39	9464.74	1425.05	8636.99
1380.22	10757.7	1402.87	9463.42	1425.53	8623.64
1380.7	10765.9	1403.35	9422.74	1426.01	8648.09
1381.18	10736.2	1403.84	9418.97	1426.49	8643.81
1381.66	10731.5	1404.32	9288.2	1426.98	8642.76
1382.14	10705.4	1404.8	8445.42	1427.46	8608.82
1382.63	10665.5	1405.28	8788.41	1427.94	8555.94
1383.11	10642	1405.76	9361.22	1428.42	8477.69
1383.59	10630	1406.25	9397.84	1428.9	8547.25
1384.07	10596.1	1406.73	9402.35	1429.39	8291.18

Filenam LMA0126  
Subfile: 0001

Type: OFF STACK

WN	INT
1429.87	7269.01
1430.35	8265.23
1430.83	8472.87
1431.31	8481.41
1431.8	8410.54
1432.28	8430.61
1432.76	8377.63
1433.24	8109.44
1433.72	8404.01
1434.21	8410.91
1434.69	8364.85
1435.17	8294.07
1435.65	7963
1436.13	7424.79
1436.62	5363.33
1437.1	6409.48
1437.58	8090.08
1438.06	8299.28
1438.54	8369.26
1439.03	8404.6
1439.51	8421.64
1439.99	8418.46
1440.47	8436.42
1440.95	8444.43
1441.44	8425.72
1441.92	8462.81
1442.4	8456.23
1442.88	8437.7
1443.37	8456.16
1443.85	8457.92
1444.33	8461.34
1444.81	8431.5
1445.29	8408.6
1445.78	8409.38
1446.26	8375.61
1446.74	8324.84
1447.22	8212.79
1447.7	7319.68
1448.19	7187.51
1448.67	8113.56
1449.15	8189.68
1449.63	8173.72
1450.11	8120.84

**ON and OFF STACK Response**  
**LMA0126**



Filenam LMA0126  
Subfile: 0500

Type: ON STACK

WN	INT	WN	INT	WN	INT
750.173	36376.7	772.83	40700.7	795.486	42140.3
750.655	36344.6	773.312	40727.6	795.969	42374.7
751.137	37028.5	773.794	40886.4	796.451	41937.1
751.619	36965.2	774.276	41195.1	796.933	41667.6
752.101	37262	774.758	41213.9	797.415	41991.4
752.583	37404.8	775.24	41796.4	797.897	41805.8
753.066	37472.4	775.722	42200.8	798.379	42037.7
753.548	37473.3	776.204	41758.5	798.861	42073.3
754.03	37927.5	776.686	42166.3	799.343	41620.9
754.512	38128.2	777.168	42421.9	799.825	41154.4
754.994	38037.3	777.65	41873.5	800.307	40885.5
755.476	37933.6	778.132	41723.6	800.789	40719.5
755.958	38546	778.614	41860.9	801.271	40670.2
756.44	37940.8	779.097	42350.3	801.753	40809.9
756.922	38137.2	779.579	42352.3	802.235	40791.8
757.404	38661.5	780.061	41812.8	802.717	41283.8
757.886	38121	780.543	41832.3	803.199	41793.7
758.368	38228.4	781.025	41789	803.681	41810.9
758.85	38932.6	781.507	41839.9	804.163	40950.6
759.332	38411.4	781.989	41847.2	804.646	40827.5
759.814	38461.6	782.471	41956.3	805.128	40672.2
760.296	39090.5	782.953	42011.4	805.61	40700.7
760.778	38778.9	783.435	42344.1	806.092	41539.3
761.26	38634.6	783.917	42763.4	806.574	41189
761.743	39318.6	784.399	43076.2	807.056	40939.4
762.225	38845.7	784.881	42785.2	807.538	41229.4
762.707	38891	785.363	42306.4	808.02	42470.5
763.189	39327.4	785.845	42091.9	808.502	41886.6
763.671	39072.1	786.327	42003.6	808.984	41287.6
764.153	39061	786.809	42006.1	809.466	41483.9
764.635	39470.3	787.292	41810.9	809.948	41415.5
765.117	39380.8	787.774	41936.3	810.43	41510.3
765.599	39263.4	788.256	41711.2	810.912	41849
766.081	39668.2	788.738	41676.8	811.394	41749.5
766.563	39704.4	789.22	41685.8	811.876	41859.3
767.045	39764.8	789.702	41709.3	812.358	42140.1
767.527	40217	790.184	41687.4	812.84	42159.9
768.009	40036.7	790.666	41919.4	813.322	42483
768.491	40027.9	791.148	41727.6	813.805	43616.8
768.973	40792.3	791.63	42516.3	814.287	43515.3
769.455	40376.7	792.112	42244.6	814.769	43474.2
769.937	40858.8	792.594	41793.8	815.251	42789.1
770.42	40663.5	793.076	41795.8	815.733	42794.6
770.902	40419.6	793.558	42195.9	816.215	42730.3
771.384	40481.1	794.04	42593.3	816.697	42828.7
771.866	40481.1	794.522	41823.5	817.179	42868.5
772.348	40571.7	795.004	41737.4	817.661	42768.5

Filenam LMA0126  
Subfile: 0500

Type: ON STACK

WN	INT
818.143	42858.6
818.625	42976.6
819.107	42964.6
819.589	43030.6
820.071	43175.9
820.553	43286.6
821.035	43288.7
821.517	43470.6
822	43623.2
822.482	43773
822.964	43920.8
823.446	44055.4
823.928	44203.6
824.41	44412.6
824.892	45082
825.374	45626.1
825.856	45124.5
826.338	45112.5
826.82	45605
827.302	46411.5
827.784	47226.4
828.266	46182.9
828.748	46067.2
829.23	46133.6
829.712	46302.9
830.194	46335.8
830.677	46614.2
831.159	46683.1
831.641	46841.2
832.123	46943.9
832.605	47199.9
833.087	47306
833.569	47449.9
834.051	47576.7
834.533	47739.5
835.015	47917.1
835.497	49007.6
835.979	48137.2
836.461	48124.6
836.943	48291.2
837.425	48393.3
837.907	48603.1
838.389	48643.3
838.871	48858.8
839.353	49300.5
839.836	50802.8
840.318	50351.1

WN	INT
840.8	49285
841.282	49386.6
841.764	49877.8
842.246	49521.4
842.728	49377.9
843.21	49489.5
843.692	49750.2
844.174	49564.4
844.656	49656.7
845.138	49738.8
845.62	49995.6
846.102	49915
846.584	49962.2
847.066	50049.5
847.548	50228.9
848.03	50239.4
848.513	50418.1
848.995	50802.6
849.477	52247
849.959	51502.2
850.441	50834.7
850.923	50912
851.405	51021.8
851.887	51542
852.369	52809.7
852.851	52888.3
853.333	52131.9
853.815	51409.6
854.297	52034.3
854.779	52551.5
855.261	51093.2
855.743	50734.5
856.225	50561.4
856.707	50504.3
857.19	50494.2
857.672	50421.9
858.154	50398.4
858.636	51464.4
859.118	50419.6
859.6	50869
860.082	50384.9
860.564	50315.4
861.046	50313
861.528	50262.3
862.01	50481.9
862.492	50358
862.974	50384.1

WN	INT
863.456	50373.6
863.938	50478.6
864.42	50637.6
864.902	51924
865.384	52362.7
865.867	51095.7
866.349	50723.7
866.831	50667.9
867.313	50714.6
867.795	50855.5
868.277	50736.8
868.759	50770.3
869.241	50822.6
869.723	50896.2
870.205	51038.5
870.687	51399.2
871.169	52979.5
871.651	51987.9
872.133	51244.5
872.615	51207.7
873.097	51141.1
873.579	51113.1
874.061	51168.7
874.544	51224.4
875.026	51203.5
875.508	51320.3
875.99	51491.4
876.472	51452.7
876.954	51447.9
877.436	51564.3
877.918	51830.5
878.4	53300.6
878.882	52584.7
879.364	51787.1
879.846	51844.6
880.328	51915.3
880.81	52172.2
881.292	52550.5
881.774	52030.5
882.256	52030
882.738	52269.7
883.221	53328.8
883.703	53838.5
884.185	53088
884.667	52416
885.149	52356.1
885.631	52392.1

Filenam LMA0126  
Subfile: 0500

Type: ON STACK

WN	INT	WN	INT	WN	INT
886.113	52488.5	908.769	54842.4	931.426	51561.4
886.595	52837.3	909.252	54528.9	931.908	51575.5
887.077	54355.4	909.734	53173.4	932.39	51505.6
887.559	53716.4	910.216	53618.2	932.872	51609.4
888.041	52937.7	910.698	53206.5	933.354	51174.5
888.523	53991.7	911.18	52504.6	933.836	51143.8
889.005	52907.4	911.662	52435.8	934.318	51095.4
889.487	52571.4	912.144	52434.7	934.801	51427.4
889.969	53385.2	912.626	52371.4	935.283	51035.5
890.451	52615	913.108	52332.5	935.765	50904.3
890.933	52508.2	913.59	52409.2	936.247	51037.3
891.415	53558.7	914.072	53685.7	936.729	51373.7
891.898	52549	914.554	52437.1	937.211	51211.3
892.38	52434.6	915.036	52362.6	937.693	50870.2
892.862	52317.7	915.518	52309.7	938.175	50998.5
893.344	52260	916	52233	938.657	51419.8
893.826	52260.5	916.482	52350.1	939.139	50863.7
894.308	52234.2	916.964	52241.4	939.621	50832.4
894.79	52277	917.446	52246.5	940.103	50963.7
895.272	52251.9	917.929	52272.7	940.585	51612.2
895.754	52312.6	918.411	53574.6	941.067	52223.8
896.236	52340.6	918.893	52328.2	941.549	50813.6
896.718	52374.3	919.375	52149.7	942.031	50847.5
897.2	52269.5	919.857	52209.4	942.513	51320.4
897.682	53113.4	920.339	52172.1	942.995	50739.2
898.164	52235.6	920.821	52460	943.478	50669.7
898.646	52232.2	921.303	53469.5	943.96	51101.2
899.128	52188.4	921.785	53265.7	944.442	51364.3
899.61	52215.8	922.267	54507.7	944.924	52123
900.092	52268	922.749	52592	945.406	50746
900.575	52263.1	923.231	52272.4	945.888	51300.9
901.057	52277.2	923.713	52097.3	946.37	50828.2
901.539	52247	924.195	52132.1	946.852	51066.4
902.021	52256.9	924.677	52906.3	947.334	50946.3
902.503	52410.6	925.159	53864.4	947.816	52133
902.985	52396.9	925.641	52517.8	948.298	53579
903.467	52284.3	926.124	51996.7	948.78	51361.5
903.949	52382.7	926.606	51837.3	949.262	51044.3
904.431	52445.4	927.088	52067.4	949.744	50784.6
904.913	52510.5	927.57	51863.7	950.226	50482.9
905.395	52920.6	928.052	51702.1	950.708	50372
905.877	52694.1	928.534	52041.4	951.19	51133.7
906.359	54306.8	929.016	52712.4	951.672	50377
906.841	53428.1	929.498	51534.1	952.155	50269.8
907.323	52647.4	929.98	51667.7	952.637	50537.2
907.805	53000.7	930.462	51586.3	953.119	51340.6
908.287	53337.1	930.944	51989.6	953.601	51280



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Type: ON STACK

WN	INT
954.083	50739.2
954.565	50766.2
955.047	51036
955.529	51472.7
956.011	50365.5
956.493	49813.8
956.975	49637.7
957.457	49600.5
957.939	49888.6
958.421	49441.6
958.903	49728.6
959.385	50528.4
959.867	50163.3
960.349	49489.9
960.832	49447
961.314	49246.7
961.796	49476.5
962.278	49144.6
962.76	48949.6
963.242	49306.4
963.724	48986.1
964.206	48887.5
964.688	49457
965.17	49022.4
965.652	49328.7
966.134	49931.8
966.616	49485.3
967.098	49793.2
967.58	49565
968.062	48937.7
968.544	48571.4
969.026	49107.4
969.509	48540.2
969.991	48569.2
970.473	49665
970.955	48722.9
971.437	50321.8
971.919	49679.2
972.401	48472
972.883	48388.5
973.365	50159.3
973.847	49533.8
974.329	48547.4
974.811	48582.3
975.293	48155.9
975.775	49779.2
976.257	49027.4

WN	INT
976.739	47928.6
977.221	49146.2
977.703	48282.1
978.186	47594.2
978.668	47845.4
979.15	47205.4
979.632	47591.5
980.114	46925.8
980.596	46854.4
981.078	47226.1
981.56	47119.3
982.042	47230.9
982.524	46433.4
983.006	46417.5
983.488	46448.9
983.97	46793.4
984.452	46523.4
984.934	45897.5
985.416	46091.3
985.898	45674.3
986.38	45755.1
986.863	45612
987.345	45530.4
987.827	45518.2
988.309	45360.9
988.791	45535
989.273	45264.5
989.755	45227.1
990.237	45518.9
990.719	45094.1
991.201	44923.9
991.683	45048.1
992.165	44808.3
992.647	44992.1
993.129	44661.3
993.611	44478.4
994.093	44491.2
994.575	44653.1
995.057	44353.4
995.54	44287.7
996.022	44123.6
996.504	43999.5
996.986	44107.2
997.468	44014
997.95	43939.7
998.432	44108.5
998.914	45272

WN	INT
999.396	43755.7
999.878	43763.9
1000.36	44921.1
1000.84	43540.2
1001.32	43360.1
1001.8	43083.6
1002.28	43146.4
1002.77	42821.4
1003.25	42963.1
1003.73	43827.4
1004.21	42899.5
1004.69	42789.4
1005.18	42306.2
1005.66	42279.5
1006.14	42167.8
1006.62	41975.7
1007.1	42394.8
1007.59	41975
1008.07	41593.1
1008.55	41502.8
1009.03	41323.1
1009.51	41615.1
1010	42976.8
1010.48	41612.3
1010.96	42355.5
1011.44	40982.2
1011.92	40849.9
1012.41	40505.9
1012.89	40250.4
1013.37	40297.7
1013.85	40294.1
1014.34	41925.4
1014.82	40844.6
1015.3	39780.7
1015.78	39515.4
1016.26	39247.2
1016.75	39281.8
1017.23	39355.4
1017.71	40551.2
1018.19	39319.1
1018.67	38799
1019.16	38533.6
1019.64	38610.9
1020.12	38289.5
1020.6	38054.8
1021.08	38073.8
1021.57	37730.9

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1022.05	38067.7	1044.71	34485.5	1067.36	32142.9
1022.53	37722	1045.19	34838.5	1067.84	31744.3
1023.01	37819.5	1045.67	34288.7	1068.33	31372.4
1023.49	37571.3	1046.15	34637.3	1068.81	31522.5
1023.98	37485.2	1046.63	35053.5	1069.29	31319.4
1024.46	37484.9	1047.12	34681.5	1069.77	30902.9
1024.94	37471.6	1047.6	34685.4	1070.25	31195
1025.42	37386.8	1048.08	34774.5	1070.74	30992.7
1025.91	37172.5	1048.56	35020.1	1071.22	30615.9
1026.39	37156.8	1049.04	35327.3	1071.7	30991.8
1026.87	37217.7	1049.53	35502.8	1072.18	30931
1027.35	37259	1050.01	34812.7	1072.66	31853.2
1027.83	37091.2	1050.49	35394.2	1073.15	31047.5
1028.32	38533.3	1050.97	35356.8	1073.63	30616.9
1028.8	37916.6	1051.45	35556.8	1074.11	31707.9
1029.28	37797.1	1051.94	34984.2	1074.59	32178.7
1029.76	38182.1	1052.42	34997.8	1075.07	30384.7
1030.24	37126.3	1052.9	34699.6	1075.56	30068.5
1030.73	37412.9	1053.38	34714.2	1076.04	31054.5
1031.21	36841.1	1053.86	35097.3	1076.52	29666.1
1031.69	36766.1	1054.35	34614.7	1077	29748.5
1032.17	37123.8	1054.83	34718.7	1077.48	29935.9
1032.65	37077.3	1055.31	35110	1077.97	29151.9
1033.14	36763.3	1055.79	35009	1078.45	29694.5
1033.62	36575.5	1056.27	34588.5	1078.93	29115.2
1034.1	36368.6	1056.76	33986.8	1079.41	28919.8
1034.58	36215.1	1057.24	34715.7	1079.9	29583.8
1035.06	36111.7	1057.72	34091.8	1080.38	28651.2
1035.55	36305.4	1058.2	34042.2	1080.86	28954.1
1036.03	35831	1058.68	34660.2	1081.34	29372.2
1036.51	35790.9	1059.17	34014.3	1081.82	28441.3
1036.99	35756.7	1059.65	33943.1	1082.31	28966.1
1037.47	36138.1	1060.13	35033.4	1082.79	28111.1
1037.96	35805.8	1060.61	33816.2	1083.27	28393.5
1038.44	35763.2	1061.1	33412.8	1083.75	28231.5
1038.92	35590.1	1061.58	33324	1084.23	28072.8
1039.4	36913.3	1062.06	33242.6	1084.72	28677.2
1039.88	35675.5	1062.54	34270.3	1085.2	28462.1
1040.37	35336.3	1063.02	32983.1	1085.68	28738.7
1040.85	35354.3	1063.51	32887	1086.16	27695.5
1041.33	35687.6	1063.99	32487.9	1086.64	27654.9
1041.81	34917.8	1064.47	32579.1	1087.13	27585.5
1042.29	34950.6	1064.95	32488.4	1087.61	27516.4
1042.78	35087.5	1065.43	32921.1	1088.09	27887.6
1043.26	34986.7	1065.92	34191.4	1088.57	27230.5
1043.74	34248.8	1066.4	34151.5	1089.05	27393.4
1044.22	34231.7	1066.88	32674.3	1089.54	27106.7

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1090.02	27306.1	1112.68	25508.8	1135.33	28384.8
1090.5	27413.1	1113.16	25263.2	1135.81	28267.8
1090.98	28810.4	1113.64	25138.3	1136.3	28180.7
1091.46	28690.9	1114.12	25058.1	1136.78	28031.7
1091.95	27315.8	1114.6	25317.9	1137.26	28333.4
1092.43	26764.5	1115.09	25089.2	1137.74	28164.4
1092.91	26625.5	1115.57	25050.7	1138.22	27292.4
1093.39	26423.6	1116.05	25037.4	1138.71	26527.2
1093.87	26381.1	1116.53	25050.2	1139.19	26525
1094.36	26277.1	1117.01	25053.1	1139.67	26339.6
1094.84	26296.3	1117.5	26142.3	1140.15	26361.4
1095.32	26154.2	1117.98	25339.3	1140.63	26425.2
1095.8	26112.6	1118.46	25234.6	1141.12	26030.2
1096.29	26097.4	1118.94	25113	1141.6	27223.1
1096.77	26024.2	1119.42	25154.8	1142.08	26226.9
1097.25	25973.2	1119.91	25354.4	1142.56	25656.9
1097.73	25961.4	1120.39	26142.4	1143.04	26299.8
1098.21	25943.8	1120.87	27346.2	1143.53	25916.3
1098.7	26089.8	1121.35	27311.3	1144.01	25955.9
1099.18	26718.4	1121.83	26288	1144.49	26172.3
1099.66	28187.6	1122.32	25616.8	1144.97	25601.6
1100.14	26892.6	1122.8	25209.1	1145.45	26343.9
1100.62	26391.4	1123.28	25091.5	1145.94	25861.9
1101.11	27304.7	1123.76	25398.9	1146.42	25859.3
1101.59	27934.5	1124.24	25043.5	1146.9	26453.9
1102.07	26467.1	1124.73	24869.9	1147.38	25709.3
1102.55	26133.7	1125.21	24869.1	1147.87	26655.3
1103.03	25953.6	1125.69	24976.7	1148.35	26269
1103.52	25986.8	1126.17	24901.8	1148.83	27072.1
1104	25754.8	1126.65	24961.4	1149.31	28177.5
1104.48	25722.8	1127.14	24881.8	1149.79	27465.6
1104.96	25906.3	1127.62	24894.3	1150.28	27111.5
1105.44	25896.9	1128.1	25000.9	1150.76	26546.8
1105.93	26367.5	1128.58	24953.9	1151.24	27325.6
1106.41	27510.3	1129.06	25170.1	1151.72	27908.1
1106.89	27903.5	1129.55	25133.5	1152.2	27505
1107.37	26607.5	1130.03	25485.4	1152.69	27737.3
1107.85	25906.9	1130.51	25461.5	1153.17	26750.2
1108.34	25863.4	1130.99	25214	1153.65	25967
1108.82	25536.3	1131.48	25604.6	1154.13	26072.3
1109.3	25403.3	1131.96	25785.2	1154.61	25904.2
1109.78	25401.1	1132.44	25705.7	1155.1	25930.4
1110.26	25718.5	1132.92	26251.3	1155.58	25289.3
1110.75	25964.7	1133.4	26157.9	1156.06	25130.2
1111.23	27131	1133.89	26664.2	1156.54	25389.5
1111.71	27395.4	1134.37	27030.2	1157.02	24666.4
1112.19	26100.5	1134.85	27487.8	1157.51	25144.7

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1157.99	24832.3	1180.64	24816.7	1203.3	21739.5
1158.47	24839.8	1181.13	24790.9	1203.78	21932.8
1158.95	25065.4	1181.61	24161.9	1204.27	21458.7
1159.43	24347.5	1182.09	23960.1	1204.75	21886.7
1159.92	25001.2	1182.57	24239.5	1205.23	21810.3
1160.4	24593.5	1183.06	23783.6	1205.71	22269
1160.88	24789	1183.54	24428.4	1206.19	22821.1
1161.36	24695.8	1184.02	24609	1206.68	22049.8
1161.84	24642.1	1184.5	24577.1	1207.16	22105.8
1162.33	24813.7	1184.98	24203.1	1207.64	21816
1162.81	24578.3	1185.47	24958.3	1208.12	21816
1163.29	24686.1	1185.95	25062.1	1208.6	22362.4
1163.77	25140.9	1186.43	25319.3	1209.09	22483
1164.26	25149.8	1186.91	25121.9	1209.57	22376.4
1164.74	26053.5	1187.39	25219	1210.05	22634.4
1165.22	26373.9	1187.88	25283.5	1210.53	22755.1
1165.7	26363	1188.36	24416.7	1211.01	23198.1
1166.18	25961	1188.84	24447.2	1211.5	23178.2
1166.67	24959.6	1189.32	23709.2	1211.98	23228.8
1167.15	25177.2	1189.8	23870.5	1212.46	23184.1
1167.63	24297.3	1190.29	23872.6	1212.94	23155.7
1168.11	24446.2	1190.77	23762.9	1213.42	22699.4
1168.59	24289.7	1191.25	24504.3	1213.91	22428.6
1169.08	24700.6	1191.73	23491.5	1214.39	22231.2
1169.56	24636.6	1192.21	23526.6	1214.87	22661.5
1170.04	24914.4	1192.7	23240.7	1215.35	22397.2
1170.52	24763.8	1193.18	23557.5	1215.83	22089.3
1171	24753.9	1193.66	23465.7	1216.32	22087.8
1171.49	25354.6	1194.14	23130.5	1216.8	21848.4
1171.97	24803.1	1194.62	22658.7	1217.28	22079.8
1172.45	25420.6	1195.11	23284.1	1217.76	22436.7
1172.93	25595.6	1195.59	23117.3	1218.25	22902.6
1173.41	26136.4	1196.07	23333	1218.73	22795.8
1173.9	26335.7	1196.55	23228.9	1219.21	22691.4
1174.38	26059.8	1197.03	23310.4	1219.69	22169
1174.86	26307.9	1197.52	24044.4	1220.17	22442.2
1175.34	25859.2	1198	24033.7	1220.66	22242.1
1175.82	25960.8	1198.48	24127.9	1221.14	22373.1
1176.31	25314.9	1198.96	23438.3	1221.62	22047.8
1176.79	25490.9	1199.45	23334	1222.1	21900.7
1177.27	24830.4	1199.93	22521.1	1222.58	22203.1
1177.75	24515	1200.41	22500	1223.07	21870.3
1178.23	24862.5	1200.89	22328.2	1223.55	22272.9
1178.72	24864.7	1201.37	22467.9	1224.03	22178
1179.2	24730.6	1201.86	22081.1	1224.51	22592.7
1179.68	23812.4	1202.34	21903.7	1224.99	22299.5
1180.16	24664.1	1202.82	21964.7	1225.48	22388.4

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Type: ON STACK

WN	INT
1225.96	22367.6
1226.44	22174.7
1226.92	21771.3
1227.4	21383.2
1227.89	21071.1
1228.37	20912
1228.85	21602.5
1229.33	21635.3
1229.81	21776.8
1230.3	21265.7
1230.78	21468.2
1231.26	20559.4
1231.74	21495.2
1232.22	20561.6
1232.71	21877.9
1233.19	21042.4
1233.67	21587.3
1234.15	20455.2
1234.64	21254.8
1235.12	20759.5
1235.6	21348.4
1236.08	21929.9
1236.56	22009.8
1237.05	22580.8
1237.53	21984.3
1238.01	22671.9
1238.49	21780.6
1238.97	23663
1239.46	22365.1
1239.94	24005
1240.42	22074.1
1240.9	24420.8
1241.38	21918.6
1241.87	24639.8
1242.35	22025.2
1242.83	23292
1243.31	22437.6
1243.79	23318.2
1244.28	22106.7
1244.76	23908.6
1245.24	22877.2
1245.72	25878.9
1246.2	22725.4
1246.69	26184.9
1247.17	22635.5
1247.65	26191.7
1248.13	23298

WN	INT
1248.61	26719
1249.1	23480.2
1249.58	27013.3
1250.06	23601.3
1250.54	27371.4
1251.02	23897.6
1251.51	27301.7
1251.99	24042.2
1252.47	27209.9
1252.95	24063.2
1253.44	27375.8
1253.92	23981.7
1254.4	27951.3
1254.88	23808.2
1255.36	28369.1
1255.85	23481.8
1256.33	28394.6
1256.81	23037.1
1257.29	27768.4
1257.77	22561.1
1258.26	26919.1
1258.74	21150.5
1259.22	25692.6
1259.7	20604.6
1260.18	19882.8
1260.67	20325.1
1261.15	23237.2
1261.63	21547.1
1262.11	26471.6
1262.59	22226.2
1263.08	27371.4
1263.56	22378.1
1264.04	23067.4
1264.52	23643.7
1265	25743.7
1265.49	22068.6
1265.97	22712.8
1266.45	21760
1266.93	22278.9
1267.41	25413.9
1267.9	21857.7
1268.38	20447.4
1268.86	21865.7
1269.34	24634.7
1269.83	20789.1
1270.31	21602
1270.79	22502

WN	INT
1271.27	22550
1271.75	21183.8
1272.24	21853.2
1272.72	24845.4
1273.2	26270.1
1273.68	27947
1274.16	27532.6
1274.65	29917.1
1275.13	26904.9
1275.61	29528.3
1276.09	28071.9
1276.57	28899.3
1277.06	28541.1
1277.54	27750.9
1278.02	29371.3
1278.5	27009.7
1278.98	28928.9
1279.47	25943.2
1279.95	23138.1
1280.43	24262.4
1280.91	24811
1281.39	25033.1
1281.88	23882
1282.36	25935.2
1282.84	23265.1
1283.32	24012.6
1283.8	22844.1
1284.29	21090.5
1284.77	22402.5
1285.25	21390.3
1285.73	22823.4
1286.22	21107.9
1286.7	22061.9
1287.18	19924
1287.66	19766.4
1288.14	19738.4
1288.63	20051.9
1289.11	21000.9
1289.59	22105.6
1290.07	23310.9
1290.55	20420.7
1291.04	22535.1
1291.52	26973.5
1292	23026.7
1292.48	24780.2
1292.96	25528.6
1293.45	23628.2

Filenam LMA0126  
Subfile: 0500

Type: ON STACK

WN	INT	WN	INT	WN	INT
1293.93	27772.3	1316.58	16085	1339.24	13019.3
1294.41	24197.3	1317.07	15650	1339.72	13249.1
1294.89	27016.3	1317.55	15957.2	1340.21	12584.3
1295.37	26899.1	1318.03	16011.5	1340.69	12906.9
1295.86	24457.1	1318.51	15612.6	1341.17	13429.3
1296.34	24285	1318.99	15135.3	1341.65	13344.9
1296.82	21994.8	1319.48	15642.5	1342.13	13368.6
1297.3	24777.2	1319.96	15527.2	1342.62	13398.2
1297.78	27701.2	1320.44	15622	1343.1	13302.1
1298.27	26192.5	1320.92	15598.9	1343.58	13319.2
1298.75	30352.6	1321.41	16469.1	1344.06	13344.7
1299.23	27696.3	1321.89	16803	1344.54	13202.6
1299.71	27588.5	1322.37	17612.3	1345.03	13127.8
1300.19	29713	1322.85	16681.7	1345.51	13228.4
1300.68	27356.9	1323.33	15598.9	1345.99	13155.3
1301.16	28677.7	1323.82	16467.7	1346.47	13068.7
1301.64	28458.7	1324.3	16804.3	1346.95	13100.7
1302.12	26343.2	1324.78	16697.7	1347.44	12954
1302.6	28592.9	1325.26	16819.1	1347.92	12909.3
1303.09	27845.6	1325.74	16672	1348.4	12906.4
1303.57	24872.5	1326.23	16406.6	1348.88	12795.7
1304.05	27942.3	1326.71	16636.5	1349.36	12660
1304.53	26038.7	1327.19	15939.4	1349.85	12775.5
1305.02	23795.6	1327.67	15824.7	1350.33	12734.7
1305.5	22778.4	1328.15	15879.1	1350.81	12615.4
1305.98	22365.1	1328.64	16038.8	1351.29	12642.3
1306.46	22197.1	1329.12	15605.4	1351.77	12692
1306.94	25520.5	1329.6	15271.6	1352.26	12513.5
1307.43	21648.5	1330.08	14940.5	1352.74	12520
1307.91	20104.5	1330.56	15347.4	1353.22	12463.3
1308.39	18814.5	1331.05	15226.1	1353.7	12310.2
1308.87	20591.6	1331.53	15083.5	1354.18	12273
1309.35	23214.8	1332.01	14791.6	1354.67	12077.7
1309.84	24091.9	1332.49	14732.7	1355.15	12113.7
1310.32	20677.6	1332.97	14694.3	1355.63	12190.5
1310.8	23012.9	1333.46	14590.1	1356.11	12170.5
1311.28	22243.1	1333.94	14465.8	1356.6	12148.8
1311.76	18831.3	1334.42	14380.4	1357.08	12059.9
1312.25	17549.2	1334.9	14400.8	1357.56	12041.9
1312.73	16937.2	1335.38	14150.4	1358.04	11906.6
1313.21	16904.3	1335.87	13968.5	1358.52	11893.3
1313.69	16642.3	1336.35	13647.3	1359.01	11868.5
1314.17	17262.7	1336.83	13280.5	1359.49	11890.3
1314.66	16340.6	1337.31	13732.3	1359.97	11726.6
1315.14	16991.5	1337.8	13642.9	1360.45	11626.4
1315.62	18160.7	1338.28	13331.7	1360.93	10860.2
1316.1	16692.9	1338.76	13022	1361.42	11454

Filenam LMA0126  
Subfile: 0500

Type: ON STACK

WN	INT
1361.9	11477.2
1362.38	11241.2
1362.86	10659
1363.34	9821.85
1363.83	11404.8
1364.31	11500.6
1364.79	11375.8
1365.27	11389.5
1365.75	11404.6
1366.24	11322.3
1366.72	11294.1
1367.2	11260.4
1367.68	11198.3
1368.16	11092
1368.65	10599.5
1369.13	11265.9
1369.61	11162.5
1370.09	11154.1
1370.57	11115.2
1371.06	11063.7
1371.54	11061.6
1372.02	10977.9
1372.5	10923.8
1372.99	10879.8
1373.47	10212.6
1373.95	9623.09
1374.43	10716.8
1374.91	10192.1
1375.4	10551.9
1375.88	10843.1
1376.36	10790.3
1376.84	10742.4
1377.32	10765
1377.81	10587.1
1378.29	10625
1378.77	10708.2
1379.25	10701.6
1379.73	10596.6
1380.22	10673.3
1380.7	10704.8
1381.18	10717.6
1381.66	10640.3
1382.14	10669.6
1382.63	10626.5
1383.11	10632.3
1383.59	10559
1384.07	10577.8

WN	INT
1384.55	10508.3
1385.04	10428
1385.52	10391.9
1386	10283.4
1386.48	9829.89
1386.96	9865.06
1387.45	8301.46
1387.93	9871.12
1388.41	10111.2
1388.89	10100.1
1389.37	10143.7
1389.86	10092.2
1390.34	10079
1390.82	9999.79
1391.3	10033.8
1391.79	9941.51
1392.27	9922.69
1392.75	9892.62
1393.23	9812.42
1393.71	9628.49
1394.2	8537.24
1394.68	7888.65
1395.16	9344.4
1395.64	8828.89
1396.12	9303.3
1396.61	9513.01
1397.09	9484.27
1397.57	9099.49
1398.05	9250.42
1398.53	9194.49
1399.02	7989.15
1399.5	8597.42
1399.98	9269.18
1400.46	9377.35
1400.94	9320.96
1401.43	9445.23
1401.91	9266.96
1402.39	9357.6
1402.87	9276.12
1403.35	9324.23
1403.84	9190.69
1404.32	9159.15
1404.8	8297.83
1405.28	8724.05
1405.76	9212.77
1406.25	9329.48
1406.73	9297.1

WN	INT
1407.21	9312.89
1407.69	9254.54
1408.18	9260.16
1408.66	9196.34
1409.14	9204.42
1409.62	9149.28
1410.1	9105.35
1410.59	9140.5
1411.07	9022.15
1411.55	8888.8
1412.03	8910.99
1412.51	9015.82
1413	8961.76
1413.48	9002.32
1413.96	8899.46
1414.44	8808.93
1414.92	8729.35
1415.41	8716.05
1415.89	8498.06
1416.37	8549.72
1416.85	8498.81
1417.33	7739.4
1417.82	8356.55
1418.3	8333.63
1418.78	7465.96
1419.26	6007.87
1419.74	6690.09
1420.23	8227.9
1420.71	8449.66
1421.19	8543.9
1421.67	8485.3
1422.15	8517.77
1422.64	8524.9
1423.12	8454.84
1423.6	7745.93
1424.08	7761.89
1424.57	8532.36
1425.05	8632.53
1425.53	8464.82
1426.01	8553.15
1426.49	8567.73
1426.98	8557.04
1427.46	8495.32
1427.94	8471.13
1428.42	8430.53
1428.9	8486.91
1429.39	8236.08

Filenam LMA0126  
Subfile: 0500

Type: ON STACK

WN	INT
1429.87	7310.75
1430.35	8333.72
1430.83	8466.65
1431.31	8403.78
1431.8	8387
1432.28	8497.71
1432.76	8360.12
1433.24	8102.97
1433.72	8410.04
1434.21	8506.23
1434.69	8306.87
1435.17	8255.38
1435.65	7971.12
1436.13	7557.33
1436.62	5331.63
1437.1	6396
1437.58	8083.6
1438.06	8382.18
1438.54	8248.15
1439.03	8358.6
1439.51	8375.11
1439.99	8507.64
1440.47	8304.47
1440.95	8392.87
1441.44	8382.41
1441.92	8521.08
1442.4	8356.98
1442.88	8418.14
1443.37	8415.55
1443.85	8530.18
1444.33	8347.12
1444.81	8391.74
1445.29	8363.94
1445.78	8462
1446.26	8265.81
1446.74	8287.08
1447.22	8152.22
1447.7	7413.4
1448.19	7126.62
1448.67	8070.54
1449.15	8135.45
1449.63	8190.28
1450.11	8051.39

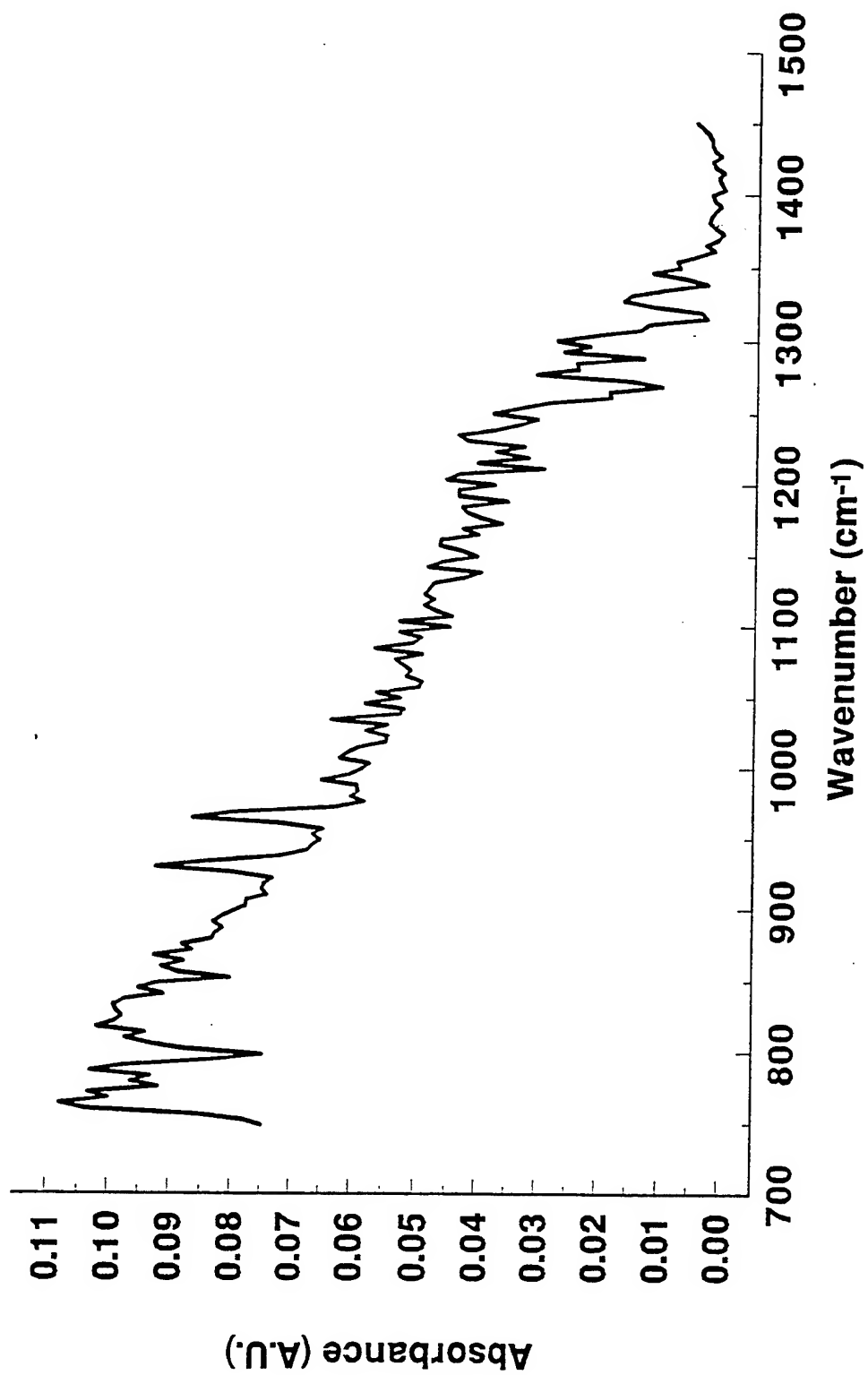


## APPENDIX F AMMONIA SPECTRA

Representative absorbance, single-beam blackbody, and single-beam on/off stack spectra are provided in the form of plots and spectral listings. The order of appearance of these files is summarized below.

DATE	FILENAME	SPS ( $\text{cm}^{-1}$ )
5JUN00	HMA0109	4
6JUN00	HMA0213	0.5

**ABSORBANCE**  
**HMA0109**



Filename: HMA0109

Type:

Absorbance

WN	ABS
748.245	0.0748967
752.102	0.0776527
755.959	0.0854225
759.816	0.103898
763.672	0.107832
767.529	0.100115
771.386	0.103211
775.243	0.0919012
779.1	0.0962107
782.957	0.0932243
786.814	0.102941
790.671	0.0974705
794.528	0.0831456
798.385	0.0748371
802.242	0.087949
806.099	0.0933655
809.956	0.0971067
813.813	0.0942471
817.669	0.101862
821.526	0.0989836
825.383	0.0978689
829.24	0.0987532
833.097	0.099144
836.954	0.0974815
840.811	0.0912102
844.668	0.0950589
848.525	0.0922026
852.382	0.080379
856.239	0.0888384
860.096	0.0913112
863.953	0.0878995
867.81	0.0925513
871.667	0.0865375
875.524	0.088044
879.38	0.0832861
883.237	0.082712
887.094	0.081627
890.951	0.0829465
894.808	0.0818376
898.665	0.079797
902.522	0.0777559
906.379	0.0775241
910.236	0.0742701
914.093	0.0750142
917.95	0.0746444
921.807	0.0733828
925.664	0.0798619

WN	ABS
929.521	0.0924094
933.378	0.0842174
937.234	0.0720309
941.091	0.067394
944.948	0.0664918
948.805	0.0652259
952.662	0.0663061
956.519	0.0647675
960.376	0.071576
964.233	0.0863563
968.09	0.0799613
971.947	0.0627974
975.804	0.0583035
979.661	0.0600571
983.518	0.059127
987.375	0.0592873
991.232	0.0648241
995.088	0.0604178
998.945	0.0586157
1002.8	0.0574147
1006.65	0.061955
1010.51	0.0608576
1014.37	0.0589612
1018.23	0.0548272
1022.08	0.0546561
1025.94	0.0577715
1029.8	0.0546892
1033.65	0.0633666
1037.51	0.0527003
1041.37	0.0522628
1045.22	0.0579587
1049.08	0.0527457
1052.94	0.056132
1056.8	0.0498522
1060.65	0.0494262
1064.51	0.0516681
1068.37	0.0511057
1072.22	0.0522169
1076.08	0.0534358
1079.94	0.0493882
1083.79	0.0565338
1087.65	0.050813
1091.51	0.0495909
1095.36	0.0526984
1099.22	0.0449744
1103.08	0.0527757
1106.94	0.0446592

Filename: HMA0109

Type:

Absorbance

WN	ABS	WN	ABS
1110.79	0.0472763	1292.07	0.0260911
1114.65	0.0489188	1295.93	0.0220411
1118.51	0.0475146	1299.78	0.0272076
1122.36	0.0489171	1303.64	0.0208086
1126.22	0.0482793	1307.5	0.0136929
1130.08	0.0474961	1311.35	0.0122877
1133.93	0.0425052	1315.21	0.0029261
1137.79	0.0397794	1319.07	0.0036926
1141.65	0.0485077	1322.92	0.0111743
1145.5	0.0459897	1326.78	0.0163943
1149.36	0.0404257	1330.64	0.015249
1153.22	0.0430286	1334.49	0.0101114
1157.08	0.0465652	1338.35	0.0028646
1160.93	0.0463492	1342.21	0.0061249
1164.79	0.0402776	1346.07	0.0116937
1168.65	0.0427436	1349.92	0.0074251
1172.5	0.0362881	1353.78	0.0078082
1176.36	0.0397737	1357.64	0.0045728
1180.22	0.0421116	1361.49	0.0017969
1184.07	0.0429008	1365.35	0.0029856
1187.93	0.0354265	1369.21	0.001189
1191.79	0.0434896	1373.06	0.0004227
1195.64	0.0434951	1376.92	0.0015511
1199.5	0.0375825	1380.78	0.0025637
1203.36	0.0455835	1384.63	0.002373
1207.22	0.0433475	1388.49	0.0016325
1211.07	0.02949	1392.35	0.0007988
1214.93	0.0403199	1396.21	0.0017823
1218.79	0.0319906	1400.06	0.0020757
1222.64	0.0372687	1403.92	0.0002111
1226.5	0.0327137	1407.78	0.000753
1230.36	0.0421991	1411.63	0.0011403
1234.21	0.0435767	1415.49	0.0004001
1238.07	0.0374452	1419.35	0.0017337
1241.93	0.0332307	1423.2	0.0021324
1245.79	0.0306366	1427.06	0.0008834
1249.64	0.0378782	1430.92	0.0018647
1253.5	0.0335783	1434.77	0.002344
1257.36	0.0284517	1438.63	0.0023392
1261.21	0.0184819	1442.49	0.0028966
1265.07	0.0185568	1446.35	0.003765
1268.93	0.0102632	1450.2	0.0047199
1272.78	0.0152453		
1276.64	0.0305792		
1280.5	0.0239156		
1284.35	0.0240847		
1288.21	0.013238		

Filename: HMA0109  
Subfile: 0302

Type: 40 deg C BB

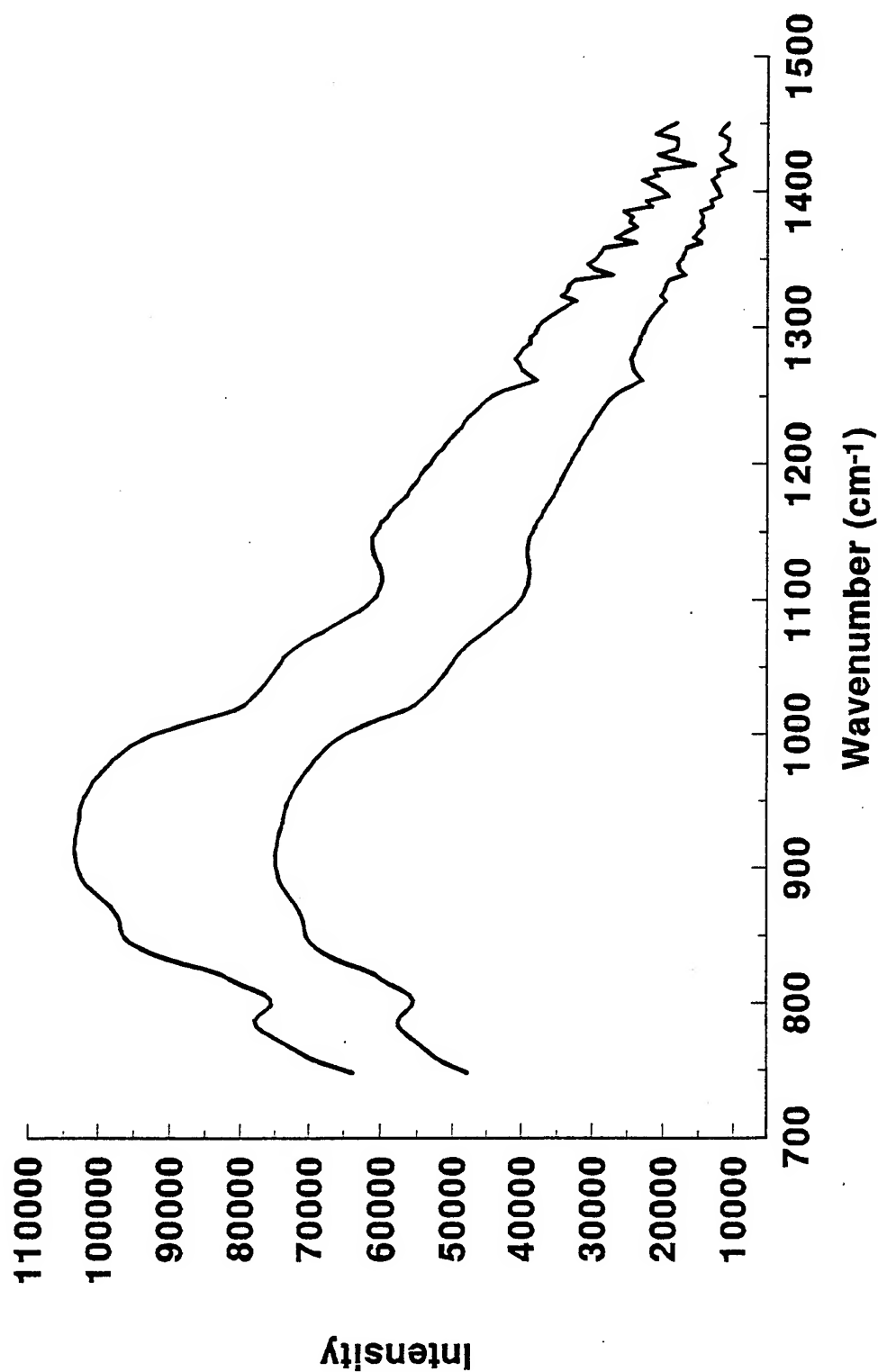
WN	INT	WN	INT
748.245	47880.6	929.521	74143.7
752.102	49681.2	933.378	73964
755.959	51213.6	937.234	73774.4
759.816	52494.4	941.091	73633.3
763.672	53458.1	944.948	73436.3
767.529	54295.3	948.805	73155.5
771.386	55226.5	952.662	72810.9
775.243	56185.2	956.519	72419.5
779.1	57036.9	960.376	72031.5
782.957	57588.2	964.233	71550.6
786.814	57641.2	968.09	70972.7
790.671	57168.5	971.947	70481.4
794.528	56470.8	975.804	69854.4
798.385	55712.8	979.661	69330.7
802.242	55615.4	983.518	68568.5
806.099	56103.4	987.375	67953.2
809.956	57334.8	991.232	67172.1
813.813	58772.4	995.088	66213.1
817.669	59851.9	998.945	65117.8
821.526	60817.4	1002.8	63737.7
825.383	62625.1	1006.65	62126.6
829.24	64680.2	1010.51	60285.5
833.097	66468.8	1014.37	58351.2
836.954	67939.6	1018.23	56581.2
840.811	68922.1	1022.08	55325.3
844.668	69766.6	1025.94	54447.5
848.525	70364.2	1029.8	53723
852.382	70575.2	1033.65	53009.1
856.239	70739.8	1037.51	52314.4
860.096	70843.6	1041.37	51723.2
863.953	71080.1	1045.22	51148
867.81	71507.1	1049.08	50666
871.667	71896.1	1052.94	50122.9
875.524	72477.7	1056.8	49676.7
879.38	73007.8	1060.65	49030.2
883.237	73564	1064.51	48246.7
887.094	74052.4	1068.37	47393.3
890.951	74433.2	1072.22	46396.8
894.808	74626.9	1076.08	45320
898.665	74764.4	1079.94	44431.1
902.522	74927.7	1083.79	43437
906.379	74883.5	1087.65	42525.3
910.236	74926	1091.51	41594
914.093	74850.2	1095.36	40858.8
917.95	74693.2	1099.22	40243.9
921.807	74575.6	1103.08	39754.3
925.664	74377.8	1106.94	39485.2

Filename: HMA0109  
Subfile: 0302

Type: 40 deg C BB

WN	INT	WN	INT
1110.79	39180.7	1292.07	23358.6
1114.65	39052.6	1295.93	22940.9
1118.51	38970.9	1299.78	22662.4
1122.36	38976.1	1303.64	22253.2
1126.22	39063.6	1307.5	21701.6
1130.08	39180.8	1311.35	21120.3
1133.93	39248.9	1315.21	20492.8
1137.79	39232.5	1319.07	19867.1
1141.65	39134.7	1322.92	20445.9
1145.5	38970.1	1326.78	20022.9
1149.36	38585.8	1330.64	19792.7
1153.22	38220.4	1334.49	19297.2
1157.08	37872	1338.35	17113
1160.93	37355.9	1342.21	17936.5
1164.79	37024.3	1346.07	18074.8
1168.65	36583.6	1349.92	17525.2
1172.5	36066	1353.78	17180.7
1176.36	35572	1357.64	16792.8
1180.22	35233.4	1361.49	14870.9
1184.07	34835.4	1365.35	15879
1187.93	34476.3	1369.21	15269.1
1191.79	34149.4	1373.06	14549
1195.64	33761.4	1376.92	14809
1199.5	33324.3	1380.78	14583.3
1203.36	32945.8	1384.63	14912
1207.22	32554.1	1388.49	13245.3
1211.07	32068.4	1392.35	13450.9
1214.93	31690	1396.21	12142.9
1218.79	31248.4	1400.06	12347.6
1222.64	30778.2	1403.92	12828.6
1226.5	30268	1407.78	13289.3
1230.36	29904.4	1411.63	12403.4
1234.21	29494.2	1415.49	12499.1
1238.07	28925.5	1419.35	10027.7
1241.93	28399.3	1423.2	11320.4
1245.79	27818.7	1427.06	12054.9
1249.64	27156.4	1430.92	11104.6
1253.5	26108	1434.77	10897.7
1257.36	24528.1	1438.63	10879.5
1261.21	23215	1442.49	12157.1
1265.07	23711.1	1446.35	11700.2
1268.93	24282.8	1450.2	10945.9
1272.78	24451.9		
1276.64	24615.6		
1280.5	24302.1		
1284.35	24026.5		
1288.21	23537.3		

**Blackbody Response at 40°C and 80°C**  
**HMA0109**



Filename: HMA0109  
Subfile: 0001

Type: 80 deg C BB

WN	INT	WN	INT
748.245	63821.5	929.521	102983
752.102	66171.9	933.378	102820
755.959	68288	937.234	102680
759.816	70098.8	941.091	102673
763.672	71548.9	944.948	102511
767.529	72797.9	948.805	102281
771.386	74160.9	952.662	101911
775.243	75544	956.519	101512
779.1	76824.8	960.376	101117
782.957	77625.7	964.233	100652
786.814	77877.2	968.09	99939.5
790.671	77394.1	971.947	99346
794.528	76493.9	975.804	98642.5
798.385	75610	979.661	98022.8
802.242	75639.1	983.518	97089.4
806.099	76420.5	987.375	96241.6
809.956	78077.2	991.232	95283.8
813.813	80012.4	995.088	93962.6
817.669	81505.2	998.945	92519.5
821.526	82776.9	1002.8	90512.9
825.383	85277.9	1006.65	88133.1
829.24	88093.7	1010.51	85557.4
833.097	90589.4	1014.37	82956.3
836.954	92714.3	1018.23	80757.1
840.811	94139.6	1022.08	79345.8
844.668	95455.5	1025.94	78522.1
848.525	96298.8	1029.8	77839.4
852.382	96643.9	1033.65	77121
856.239	96860.9	1037.51	76479.8
860.096	96949.9	1041.37	75926.2
863.953	97252.4	1045.22	75368.1
867.81	97757.9	1049.08	74892.1
871.667	98320.6	1052.94	74259.4
875.524	99147.8	1056.8	73828.1
879.38	99993.4	1060.65	73037.1
883.237	100794	1064.51	72066.8
887.094	101605	1068.37	70948.1
890.951	102214	1072.22	69612.9
894.808	102604	1076.08	68117.2
898.665	102869	1079.94	66899.9
902.522	103154	1083.79	65545.1
906.379	103240	1087.65	64306.3
910.236	103353	1091.51	63002.7
914.093	103448	1095.36	62045.1
917.95	103338	1099.22	61256.1
921.807	103353	1103.08	60581.8
925.664	103149	1106.94	60318.2



Filename: HMA0109  
Subfile: 0001

Type: 80 deg C BB

WN	INT	WN	INT
1110.79	59993.4	1292.07	38876
1114.65	59901	1295.93	38167.2
1118.51	59952.6	1299.78	37866.8
1122.36	60109	1303.64	37224.7
1126.22	60369.3	1307.5	36224.9
1130.08	60710.4	1311.35	35089.4
1133.93	60983.5	1315.21	33872.2
1137.79	61127.8	1319.07	32519.7
1141.65	61215.7	1322.92	34423.4
1145.5	61172.5	1326.78	33679.1
1149.36	60746.5	1330.64	33413.1
1153.22	60297.4	1334.49	32558.1
1157.08	59930.1	1338.35	27353.6
1160.93	59188.7	1342.21	29849.6
1164.79	58789	1346.07	30677.2
1168.65	58129.9	1349.92	29626.3
1172.5	57290.6	1353.78	29085
1176.36	56531.5	1357.64	28505
1180.22	56117.1	1361.49	24046
1184.07	55552.7	1365.35	26783
1187.93	54978.6	1369.21	25502.7
1191.79	54585.3	1373.06	23981.8
1195.64	54012.1	1376.92	24817.7
1199.5	53300.9	1380.78	24592
1203.36	52798.3	1384.63	25623.7
1207.22	52271	1388.49	21806.9
1211.07	51441.7	1392.35	22530.3
1214.93	50969.5	1396.21	19510.8
1218.79	50292	1400.06	20277.2
1222.64	49607.6	1403.92	21538.9
1226.5	48782.6	1407.78	22974.5
1230.36	48361.1	1411.63	20983.5
1234.21	47766.6	1415.49	21341.8
1238.07	46924.8	1419.35	15870.6
1241.93	46099.2	1423.2	18607
1245.79	45285.3	1427.06	20747
1249.64	44358.1	1430.92	18385.4
1253.5	42731.7	1434.77	18139.5
1257.36	40308.1	1438.63	18234.7
1261.21	38062.1	1442.49	21162.1
1265.07	39117.5	1446.35	19929.9
1268.93	39998.2	1450.2	18345.5
1272.78	40385.8		
1276.64	40963.4		
1280.5	40351.4		
1284.35	39867.8		
1288.21	38884.7		

Filename: HMA0109  
Subfile: 0602

Type: OFF STACK

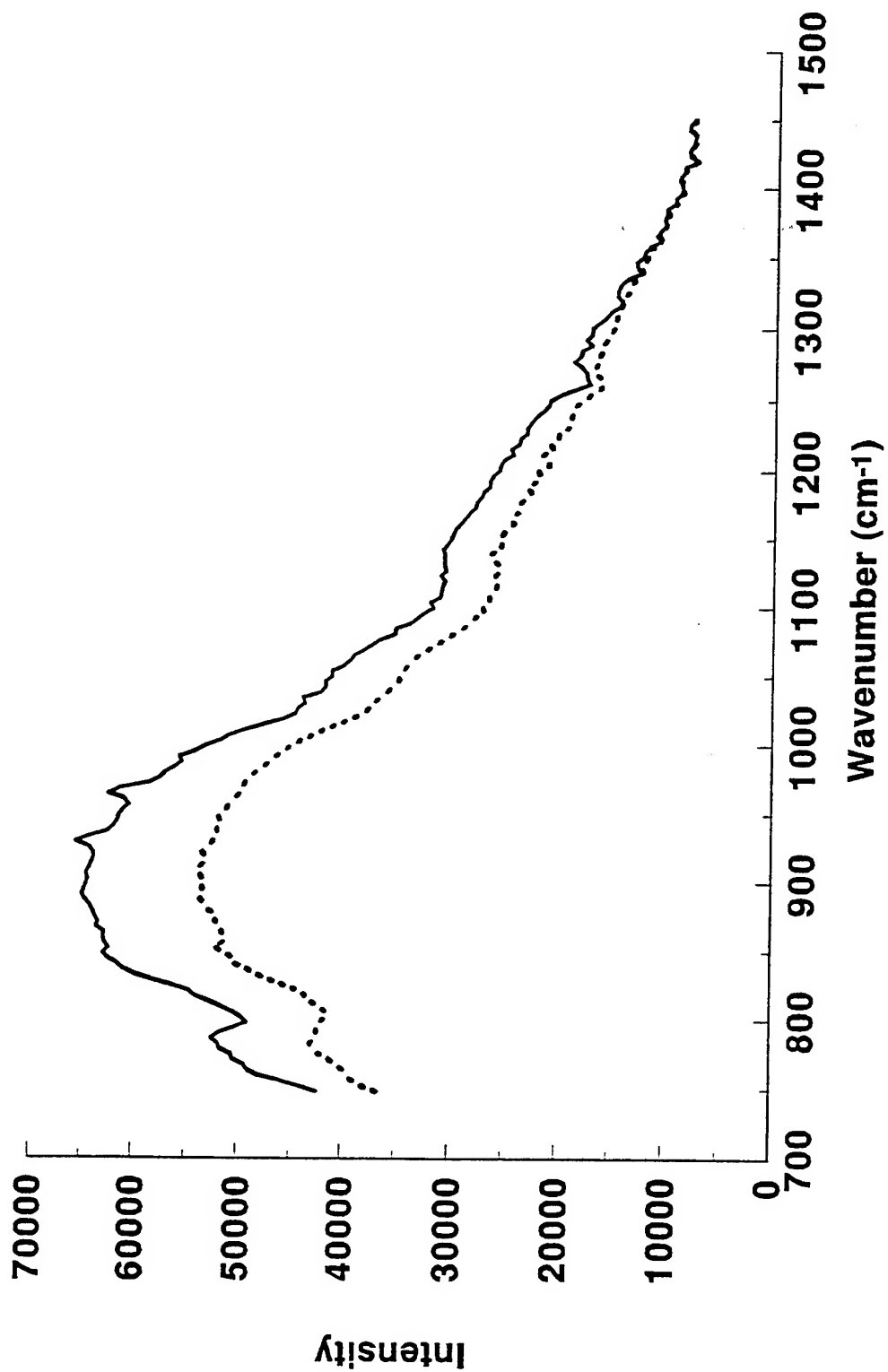
WN	INT	WN	INT
748.245	36694.9	929.521	52534.2
752.102	38051.5	933.378	52249.8
755.959	38926.3	937.234	52042.5
759.816	39339.5	941.091	52039.1
763.672	39780.7	944.948	51855.9
767.529	40644	948.805	51866.1
771.386	41136.7	952.662	51321.7
775.243	42202.4	956.519	50973.3
779.1	42591.3	960.376	50476.1
782.957	42984.1	964.233	50032.2
786.814	42558	968.09	49749.4
790.671	42391.5	971.947	49500.6
794.528	42417.9	975.804	49075.5
798.385	42070.5	979.661	48344.6
802.242	41354.4	983.518	47641.3
806.099	41540.4	987.375	47032.3
809.956	42177.3	991.232	46498.4
813.813	43333.1	995.088	45721.4
817.669	43574.2	998.945	45078.9
821.526	44331	1002.8	44044.4
825.383	45767	1006.65	42843.1
829.24	47113.6	1010.51	41826.3
833.097	48276.3	1014.37	40454
836.954	49233.5	1018.23	39174.5
840.811	50411.5	1022.08	38107.6
844.668	50498.6	1025.94	37494.6
848.525	51253.5	1029.8	37235.2
852.382	52269.1	1033.65	36407.8
856.239	51426.8	1037.51	35899.3
860.096	51223.2	1041.37	35475.6
863.953	51562.8	1045.22	34850.2
867.81	51609.3	1049.08	34825.5
871.667	52208	1052.94	34475.6
875.524	52121.3	1056.8	34049.1
879.38	52847.6	1060.65	33541.2
883.237	53108.9	1064.51	32987.7
887.094	53621.4	1068.37	32154.5
890.951	53575	1072.22	31377.5
894.808	53417.6	1076.08	30597.2
898.665	53427.3	1079.94	29752.5
902.522	53505	1083.79	29016.1
906.379	53672.2	1087.65	28378.2
910.236	53792.7	1091.51	27929.5
914.093	53318.8	1095.36	27029
917.95	53194.3	1099.22	27092.3
921.807	53391.9	1103.08	26550.4
925.664	52925.8	1106.94	26515

Filename: HMA0109  
Subfile: 0602

Type: OFF STACK

WN	INT	WN	INT
1110.79	26145.6	1292.07	15688.4
1114.65	25850.2	1295.93	15531.9
1118.51	25789.5	1299.78	15129.3
1122.36	25933.7	1303.64	15037.5
1126.22	25497.6	1307.5	14880
1130.08	25655.2	1311.35	14580.4
1133.93	26168.4	1315.21	14444
1137.79	26454.9	1319.07	14134.3
1141.65	25586.7	1322.92	14012.5
1145.5	25427.1	1326.78	13651.6
1149.36	25726.8	1330.64	13454.1
1153.22	25289.3	1334.49	13231.1
1157.08	24674.9	1338.35	12560.3
1160.93	24295.8	1342.21	12569.5
1164.79	24555.1	1346.07	12325.3
1168.65	23934.5	1349.92	12074
1172.5	24150.9	1353.78	11802.4
1176.36	23666.5	1357.64	11579.8
1180.22	23061.4	1361.49	10834.4
1184.07	22763.9	1365.35	11053.8
1187.93	23036.3	1369.21	10820.2
1191.79	22178.1	1373.06	10450.3
1195.64	21951.8	1376.92	10476.2
1199.5	22025.9	1380.78	10235
1203.36	21133.8	1384.63	10234.9
1207.22	21089.8	1388.49	9581.2
1211.07	21644.5	1392.35	9556.27
1214.93	20776.6	1396.21	8995.3
1218.79	20944.1	1400.06	8965.54
1222.64	20302.6	1403.92	9132.57
1226.5	20197.1	1407.78	9176.18
1230.36	19299.3	1411.63	8782.33
1234.21	18870.7	1415.49	8763.87
1238.07	19015.8	1419.35	7560.59
1241.93	18841.7	1423.2	8259.36
1245.79	18601.1	1427.06	8427.59
1249.64	17788.3	1430.92	8073.49
1253.5	17311.2	1434.77	7869.02
1257.36	16448.9	1438.63	7816.25
1261.21	16004.8	1442.49	8339.7
1265.07	16212.7	1446.35	8221.72
1268.93	16888.8	1450.2	7814.43
1272.78	16897.9		
1276.64	16371.5		
1280.5	16414.8		
1284.35	16218.2		
1288.21	16221.8		

**ON and OFF STACK Response**  
**HMA0109**



Filename: HMA0109  
Subfile: 0810

Type: ON STACK

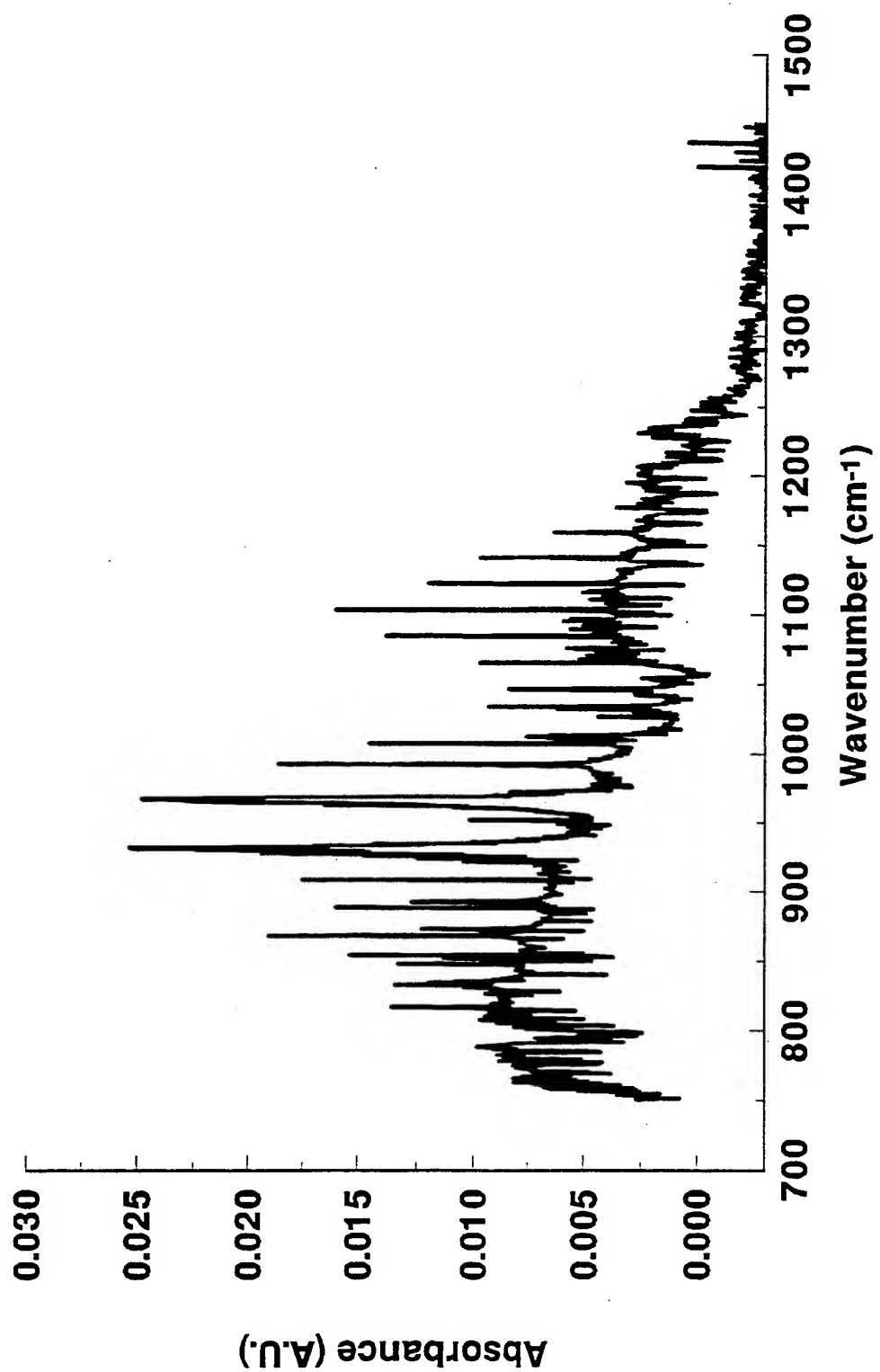
WN	INT	WN	INT
748.245	42417.4	929.521	65495.3
752.102	44181.5	933.378	64196.9
755.959	45893.9	937.234	62418.8
759.816	48005.7	941.091	61811.9
763.672	49020.8	944.948	61516.5
767.529	49426.2	948.805	61329.9
771.386	50398	952.662	60956.1
775.243	50661.6	956.519	60395.6
779.1	51633.1	960.376	60827.8
782.957	51883.1	964.233	62318.9
786.814	52448.9	968.09	61125
790.671	51751.4	971.947	58555.9
794.528	50350.9	975.804	57487.3
798.385	49183	979.661	57001.8
802.242	49743.9	983.518	56133.6
806.099	50543.4	987.375	55500.3
809.956	51758.2	991.232	55628.9
813.813	52871.9	995.088	54177
817.669	54111.5	998.945	53173.7
821.526	54746.9	1002.8	51818.9
825.383	56376.8	1006.65	50973.3
829.24	58200.1	1010.51	49562.4
833.097	59760.5	1014.37	47759.6
836.954	60860.1	1018.23	45861.5
840.811	61464.7	1022.08	44725.2
844.668	62267.7	1025.94	44445
848.525	62752.6	1029.8	43792.8
852.382	62329.3	1033.65	43948.9
856.239	62646.3	1037.51	42237.4
860.096	62780.5	1041.37	41754.2
863.953	62734.1	1045.22	41780.5
867.81	63411.4	1049.08	41120.6
871.667	63332.3	1052.94	41110.5
875.524	63617.6	1056.8	39986.1
879.38	63836.7	1060.65	39392.2
883.237	64151	1064.51	39030.9
887.094	64618.6	1068.37	38087.8
890.951	64874.3	1072.22	37347
894.808	64696.7	1076.08	36586.7
898.665	64508.8	1079.94	35253.5
902.522	64376.7	1083.79	35161.5
906.379	64516.7	1087.65	33850.5
910.236	64228.4	1091.51	33162
914.093	63959.9	1095.36	32549.2
917.95	63797.1	1099.22	31751.7
921.807	63817.2	1103.08	31943.6
925.664	64236.6	1106.94	31100.4

Filename: HMA0109  
Subfile: 0810

Type: ON STACK

WN	INT	WN	INT
1110.79	30990.3	1292.07	17645.8
1114.65	30879.7	1295.93	17156.8
1118.51	30704.4	1299.78	17129.4
1122.36	30999	1303.64	16545.9
1126.22	30587	1307.5	15845.6
1130.08	30701.9	1311.35	15415
1133.93	30701.7	1315.21	14635
1137.79	30708.7	1319.07	14362.3
1141.65	30838.2	1322.92	14771
1145.5	30441.4	1326.78	14735.9
1149.36	30097.1	1330.64	14461.2
1153.22	29922.8	1334.49	13882.9
1157.08	29694.9	1338.35	12703.3
1160.93	29244.2	1342.21	12925
1164.79	28824.2	1346.07	13040.9
1168.65	28437.3	1349.92	12511.4
1172.5	27901.9	1353.78	12255.2
1176.36	27724.1	1357.64	11841
1180.22	27360.9	1361.49	10914.8
1184.07	27106.4	1365.35	11212.7
1187.93	26576.8	1369.21	10879.6
1191.79	26526.7	1373.06	10469.8
1195.64	26258.1	1376.92	10551.9
1199.5	25693.3	1380.78	10360.1
1203.36	25574.2	1384.63	10359
1207.22	25270.4	1388.49	9649.27
1211.07	24429.2	1392.35	9591.66
1214.93	24568.5	1396.21	9059.27
1218.79	23911.4	1400.06	9045.7
1222.64	23725.1	1403.92	9141.54
1226.5	23150.8	1407.78	9211.75
1230.36	23110.7	1411.63	8829.99
1234.21	22774.5	1415.49	8781.13
1238.07	22298.6	1419.35	7609.95
1241.93	21707.5	1423.2	8334.98
1245.79	21202.6	1427.06	8464.98
1249.64	20955.3	1430.92	8139.52
1253.5	20019.7	1434.77	7951.65
1257.36	18623.8	1438.63	7899.97
1261.21	17333.5	1442.49	8467.04
1265.07	17598.1	1446.35	8372.81
1268.93	17672.2	1450.2	7984.66
1272.78	18073.5		
1276.64	18783.3		
1280.5	18270.5		
1284.35	18064.3		
1288.21	17210.1		

**ABSORBANCE**  
**HMA0213**



Filename: HMA0213

Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
750.173	0.0024901	772.83	0.0070885	795.486	0.0035369
750.655	0.0026998	773.312	0.0080493	795.969	0.0026806
751.137	0.0007894	773.794	0.0080465	796.451	0.004796
751.619	0.0024905	774.276	0.0068404	796.933	0.0052589
752.101	0.0025989	774.758	0.0081763	797.415	0.0040147
752.583	0.0020189	775.24	0.0051533	797.897	0.0048313
753.066	0.0024734	775.722	0.0042814	798.379	0.0024253
753.548	0.003531	776.204	0.0068816	798.861	0.0031005
754.03	0.0019924	776.686	0.0046298	799.343	0.0048271
754.512	0.0016342	777.168	0.0041687	799.825	0.0060682
754.994	0.0035538	777.65	0.0073831	800.307	0.0066812
755.476	0.0033115	778.132	0.0087894	800.789	0.0075748
755.958	0.0025231	778.614	0.0079721	801.271	0.0072104
756.44	0.0052284	779.097	0.0050671	801.753	0.0068207
756.922	0.0031775	779.579	0.0069314	802.235	0.0081194
757.404	0.0026633	780.061	0.0084908	802.717	0.006145
757.886	0.0065789	780.543	0.0084005	803.199	0.0036818
758.368	0.0057622	781.025	0.0086333	803.681	0.004158
758.85	0.0028018	781.507	0.0085679	804.163	0.0074126
759.332	0.0067811	781.989	0.0076309	804.646	0.0067545
759.814	0.006684	782.471	0.0088779	805.128	0.0089208
760.296	0.0033756	782.953	0.0084229	805.61	0.0080743
760.778	0.0067952	783.435	0.0075512	806.092	0.0062245
761.26	0.0072719	783.917	0.0059975	806.574	0.0082058
761.743	0.0041861	784.399	0.0042471	807.056	0.0094705
762.225	0.0076158	784.881	0.0051526	807.538	0.0096808
762.707	0.0081119	785.363	0.0072356	808.02	0.0049594
763.189	0.0047576	785.845	0.0084963	808.502	0.0066571
763.671	0.0078449	786.327	0.0090796	808.984	0.0083143
764.153	0.0080771	786.809	0.0079872	809.466	0.0077343
764.635	0.0052963	787.292	0.0091876	809.948	0.0094581
765.117	0.0071975	787.774	0.0091587	810.43	0.0086371
765.599	0.0081562	788.256	0.0098054	810.912	0.0073395
766.081	0.0058227	788.738	0.0095498	811.394	0.0086965
766.563	0.0069665	789.22	0.0089526	811.876	0.0086812
767.045	0.0077301	789.702	0.0086658	812.358	0.00932
767.527	0.0054839	790.184	0.0083236	812.84	0.0088415
768.009	0.006389	790.666	0.0080601	813.322	0.0085901
768.491	0.0072541	791.148	0.0070071	813.805	0.0053436
768.973	0.003834	791.63	0.0032622	814.287	0.0074703
769.455	0.0061822	792.112	0.0042343	814.769	0.0072597
769.937	0.0047132	792.594	0.0058617	815.251	0.0089429
770.42	0.0064862	793.076	0.0065917	815.733	0.0097016
770.902	0.007386	793.558	0.0051154	816.215	0.010259
771.384	0.0073698	794.04	0.0037568	816.697	0.0134936
771.866	0.0074641	794.522	0.0071564	817.179	0.0082991
772.348	0.007868	795.004	0.0061865	817.661	0.0091666



Filename: HMA0213

Type: Absorbance

WN	ABS
818.143	0.0091727
818.625	0.0083879
819.107	0.0090928
819.589	0.0088442
820.071	0.0081622
820.553	0.008728
821.035	0.0087709
821.517	0.0086069
822	0.0083234
822.482	0.008762
822.964	0.0088374
823.446	0.0086646
823.928	0.0085974
824.41	0.0083569
824.892	0.0072868
825.374	0.0075673
825.856	0.0089095
826.338	0.0094241
826.82	0.0094213
827.302	0.0084991
827.784	0.0060589
828.266	0.0083834
828.748	0.0086284
829.23	0.0092052
829.712	0.0088115
830.194	0.0091681
830.677	0.0104185
831.159	0.0093183
831.641	0.0091526
832.123	0.0094517
832.605	0.0133734
833.087	0.0090801
833.569	0.0091726
834.051	0.0119399
834.533	0.0095586
835.015	0.010794
835.497	0.0076649
835.979	0.0090996
836.461	0.0085868
836.943	0.0086322
837.425	0.0085793
837.907	0.0077527
838.389	0.008139
838.871	0.0080197
839.353	0.0074805
839.836	0.0039912
840.318	0.0065615

WN	ABS
840.8	0.0078489
841.282	0.0077847
841.764	0.0072368
842.246	0.0077221
842.728	0.008042
843.21	0.0077255
843.692	0.0080291
844.174	0.0078015
844.656	0.0078892
845.138	0.0078651
845.62	0.0076476
846.102	0.0079871
846.584	0.0081103
847.066	0.0095343
847.548	0.0132296
848.03	0.0102058
848.513	0.0079082
848.995	0.0071987
849.477	0.0046308
849.959	0.0075345
850.441	0.0076466
850.923	0.0080661
851.405	0.0113243
851.887	0.0066935
852.369	0.0037265
852.851	0.0045861
853.333	0.0072149
853.815	0.0153157
854.297	0.0064844
854.779	0.0049744
855.261	0.0077354
855.743	0.0075813
856.225	0.007392
856.707	0.0073357
857.19	0.0078442
857.672	0.0076886
858.154	0.0073682
858.636	0.006695
859.118	0.0074671
859.6	0.006774
860.082	0.0074971
860.564	0.0074794
861.046	0.0076165
861.528	0.0076098
862.01	0.0076537
862.492	0.0078559
862.974	0.0078042

WN	ABS
863.456	0.0078225
863.938	0.0076352
864.42	0.0078957
864.902	0.0061627
865.384	0.0058835
865.867	0.0082107
866.349	0.0080025
866.831	0.0086948
867.313	0.009569
867.795	0.0190105
868.277	0.011913
868.759	0.0087968
869.241	0.0083927
869.723	0.008049
870.205	0.008294
870.687	0.0075007
871.169	0.0049916
871.651	0.0097409
872.133	0.0084183
872.615	0.012248
873.097	0.0081041
873.579	0.0076982
874.061	0.0075227
874.544	0.007139
875.026	0.0072591
875.508	0.0069878
875.99	0.0071529
876.472	0.0068548
876.954	0.0069478
877.436	0.0070544
877.918	0.0066356
878.4	0.0046602
878.882	0.006382
879.364	0.0067281
879.846	0.0067803
880.328	0.0068177
880.81	0.0064261
881.292	0.0064593
881.774	0.0066048
882.256	0.006503
882.738	0.0065367
883.221	0.0060782
883.703	0.004866
884.185	0.0066141
884.667	0.0067339
885.149	0.0068598
885.631	0.0068062

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WN	ABS	WN	ABS	WN	ABS
886.113	0.0070207	908.769	0.0046956	931.426	0.025205
886.595	0.0069396	909.252	0.0059742	931.908	0.0252843
887.077	0.0045815	909.734	0.0064551	932.39	0.0162679
887.559	0.0078268	910.216	0.0058526	932.872	0.016924
888.041	0.0159247	910.698	0.0062271	933.354	0.0138932
888.523	0.0062181	911.18	0.0064024	933.836	0.0122027
889.005	0.0078801	911.662	0.0062234	934.318	0.0143043
889.487	0.0071865	912.144	0.0064168	934.801	0.008936
889.969	0.0065431	912.626	0.0069932	935.283	0.0094841
890.451	0.0075074	913.108	0.0063038	935.765	0.0100541
890.933	0.0070806	913.59	0.0060654	936.247	0.0082625
891.415	0.0067004	914.072	0.0056177	936.729	0.00698
891.898	0.0126906	914.554	0.0060895	937.211	0.0077316
892.38	0.012452	915.036	0.0060609	937.693	0.0079762
892.862	0.0081232	915.518	0.0067923	938.175	0.0066074
893.344	0.0074637	916	0.0063069	938.657	0.0057047
893.826	0.0073413	916.482	0.0062688	939.139	0.0067541
894.308	0.0068941	916.964	0.0060234	939.621	0.0062169
894.79	0.0069082	917.446	0.0059288	940.103	0.0059807
895.272	0.0066593	917.929	0.0058844	940.585	0.0044803
895.754	0.0067257	918.411	0.0057766	941.067	0.0052731
896.236	0.0064729	918.893	0.0071891	941.549	0.0057471
896.718	0.0066807	919.375	0.0065635	942.031	0.0053997
897.2	0.0064767	919.857	0.0061954	942.513	0.0049721
897.682	0.0059833	920.339	0.0064185	942.995	0.0056781
898.164	0.0064948	920.821	0.006305	943.478	0.0053474
898.646	0.0062856	921.303	0.0104259	943.96	0.0047413
899.128	0.0062052	921.785	0.0067523	944.442	0.0049338
899.61	0.0063449	922.267	0.0052664	944.924	0.0049091
900.092	0.0063602	922.749	0.0069881	945.406	0.0054252
900.575	0.0064901	923.231	0.0078165	945.888	0.0042283
901.057	0.0063613	923.713	0.0124601	946.37	0.0056714
901.539	0.0064646	924.195	0.0106344	946.852	0.0053609
902.021	0.0066951	924.677	0.0085368	947.334	0.0057076
902.503	0.0064301	925.159	0.0075991	947.816	0.0041112
902.985	0.0062483	925.641	0.0147139	948.298	0.0038812
903.467	0.0064853	926.124	0.0115809	948.78	0.0061771
903.949	0.0062579	926.606	0.0104071	949.262	0.0052707
904.431	0.0063656	927.088	0.0149701	949.744	0.0056367
904.913	0.0065375	927.57	0.0193606	950.226	0.0057846
905.395	0.0063239	928.052	0.0144394	950.708	0.0056497
905.877	0.0064054	928.534	0.0162169	951.19	0.0046264
906.359	0.0054458	929.016	0.0178604	951.672	0.0101452
906.841	0.0065353	929.498	0.0147072	952.155	0.0067744
907.323	0.0063604	929.98	0.0223554	952.637	0.0052046
907.805	0.0082935	930.462	0.0198188	953.119	0.0046271
908.287	0.0174521	930.944	0.0250491	953.601	0.0055553

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WN	ABS
954.083	0.0055046
954.565	0.0047631
955.047	0.005021
955.529	0.0053255
956.011	0.0054359
956.493	0.0062505
956.975	0.0062449
957.457	0.0063738
957.939	0.0071847
958.421	0.007148
958.903	0.0069968
959.385	0.0078099
959.867	0.008118
960.349	0.0083441
960.832	0.010874
961.314	0.010297
961.796	0.0102323
962.278	0.0164521
962.76	0.0120116
963.242	0.0138177
963.724	0.0164008
964.206	0.0155967
964.688	0.0199452
965.17	0.0222011
965.652	0.0228353
966.134	0.0209548
966.616	0.0217778
967.098	0.0247293
967.58	0.0235171
968.062	0.0177299
968.544	0.0105164
969.026	0.0082642
969.509	0.0090395
969.991	0.0076107
970.473	0.006228
970.955	0.007219
971.437	0.0059092
971.919	0.008339
972.401	0.0067923
972.883	0.0055689
973.365	0.0038037
973.847	0.004851
974.329	0.0047049
974.811	0.0045686
975.293	0.0046082
975.775	0.0028986
976.257	0.004439

WN	ABS
976.739	0.0042184
977.221	0.0029702
977.703	0.0046056
978.186	0.004089
978.668	0.0039678
979.15	0.0041575
979.632	0.0034246
980.114	0.0043424
980.596	0.0041167
981.078	0.0038632
981.56	0.0039975
982.042	0.0034169
982.524	0.0044451
983.006	0.0041901
983.488	0.0041383
983.97	0.0039146
984.452	0.0040411
984.934	0.0045799
985.416	0.0037644
985.898	0.0044647
986.38	0.0043169
986.863	0.0045969
987.345	0.0045889
987.827	0.0046338
988.309	0.0047067
988.791	0.0046749
989.273	0.0047863
989.755	0.004658
990.237	0.0048063
990.719	0.0050381
991.201	0.0052991
991.683	0.0088454
992.165	0.0075707
992.647	0.0185583
993.129	0.006665
993.611	0.0053647
994.093	0.0047113
994.575	0.0047795
995.057	0.0045206
995.54	0.004242
996.022	0.0047251
996.504	0.0043104
996.986	0.0038253
997.468	0.0041044
997.95	0.0038359
998.432	0.0038905
998.914	0.0033569

WN	ABS
999.396	0.0036422
999.878	0.003378
1000.36	0.0030804
1000.84	0.0033924
1001.32	0.0035778
1001.8	0.0032713
1002.28	0.0030026
1002.77	0.0034706
1003.25	0.0031229
1003.73	0.0032158
1004.21	0.0034321
1004.69	0.0029237
1005.18	0.0036635
1005.66	0.00358
1006.14	0.0036116
1006.62	0.0036302
1007.1	0.0041935
1007.59	0.0144432
1008.07	0.0043528
1008.55	0.0038691
1009.03	0.0037815
1009.51	0.0028839
1010	0.0027507
1010.48	0.0034031
1010.96	0.0053365
1011.44	0.0066442
1011.92	0.0035229
1012.41	0.0075265
1012.89	0.0049532
1013.37	0.0065215
1013.85	0.0031537
1014.34	0.0013699
1014.82	0.0028673
1015.3	0.002187
1015.78	0.0023948
1016.26	0.0021139
1016.75	0.0017244
1017.23	0.0017796
1017.71	0.0007736
1018.19	0.0021584
1018.67	0.0010612
1019.16	0.0015791
1019.64	0.0013235
1020.12	0.0014023
1020.6	0.0012753
1021.08	0.0012226
1021.57	0.0014798

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WN	ABS	WN	ABS	WN	ABS
1022.05	0.0011248	1044.71	0.0020243	1067.36	0.0026089
1022.53	0.0011034	1045.19	0.0020368	1067.84	0.0051849
1023.01	0.0012349	1045.67	0.0030047	1068.33	0.0037082
1023.49	0.0011381	1046.15	0.0081941	1068.81	0.0027345
1023.98	0.0010504	1046.63	0.0083643	1069.29	0.0031282
1024.46	0.001163	1047.12	0.0028587	1069.77	0.0034439
1024.94	0.0009111	1047.6	0.001685	1070.25	0.0029189
1025.42	0.0011521	1048.08	0.0014438	1070.74	0.0048631
1025.91	0.0013947	1048.56	0.0012075	1071.22	0.0034738
1026.39	0.0018106	1049.04	0.0010232	1071.7	0.0026309
1026.87	0.0043573	1049.53	0.0016925	1072.18	0.0038006
1027.35	0.0031263	1050.01	0.0013961	1072.66	0.0042341
1027.83	0.0020774	1050.49	0.0002495	1073.15	0.0027797
1028.32	0.0009264	1050.97	0.000681	1073.63	0.0040847
1028.8	0.0013957	1051.45	0.0016518	1074.11	0.0045466
1029.28	0.0011777	1051.94	0.0004899	1074.59	0.0015188
1029.76	0.0016775	1052.42	0.0005962	1075.07	0.0053311
1030.24	0.0028826	1052.9	0.0017286	1075.56	0.004692
1030.73	0.0021641	1053.38	0.0021084	1076.04	0.0057322
1031.21	0.0016717	1053.86	0.0005594	1076.52	0.004343
1031.69	0.0023977	1054.35	0.0024519	1077	0.0031214
1032.17	0.0061789	1054.83	0.0011863	1077.48	0.0033443
1032.65	0.0020921	1055.31	0.0001386	1077.97	0.003304
1033.14	0.0031725	1055.79	-0.000127	1078.45	0.0023009
1033.62	0.0035148	1056.27	-0.0004	1078.93	0.0034484
1034.1	0.0092667	1056.76	0.0005017	1079.41	0.0032168
1034.58	0.0037213	1057.24	-0.000485	1079.9	0.0025337
1035.06	0.0020226	1057.72	0.0003435	1080.38	0.0037867
1035.55	0.0016156	1058.2	0.0000803	1080.86	0.0028761
1036.03	0.0014718	1058.68	0.0004361	1081.34	0.0032519
1036.51	0.0013558	1059.17	0.0005235	1081.82	0.0036237
1036.99	0.0015134	1059.65	0.000662	1082.31	0.0028597
1037.47	0.0008413	1060.13	0.0001806	1082.79	0.003709
1037.96	0.0011134	1060.61	0.0008254	1083.27	0.0030486
1038.44	0.0010885	1061.1	0.0007754	1083.75	0.0040717
1038.92	0.0013817	1061.58	0.0010614	1084.23	0.0073019
1039.4	0.0003127	1062.06	0.001109	1084.72	0.0137442
1039.88	0.001442	1062.54	0.0007134	1085.2	0.0047186
1040.37	0.0014272	1063.02	0.0019979	1085.68	0.0034464
1040.85	0.00119	1063.51	0.0014725	1086.16	0.0046955
1041.33	0.0008931	1063.99	0.0023173	1086.64	0.0037334
1041.81	0.0018553	1064.47	0.0019505	1087.13	0.0036936
1042.29	0.0024326	1064.95	0.0031718	1087.61	0.0037147
1042.78	0.0027734	1065.43	0.0096863	1088.09	0.0036069
1043.26	0.0020374	1065.92	0.002535	1088.57	0.0035621
1043.74	0.0028174	1066.4	0.0018164	1089.05	0.0038282
1044.22	0.0025067	1066.88	0.0031725	1089.54	0.0055957

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WN	ABS	WN	ABS	WN	ABS
1090.02	0.0035037	1112.68	0.0034642	1135.33	0.0002166
1090.5	0.0035791	1113.16	0.0042135	1135.81	-0.000138
1090.98	0.001859	1113.64	0.0034719	1136.3	0.0014274
1091.46	0.0033553	1114.12	0.0033204	1136.78	0.0021035
1091.95	0.0050685	1114.6	0.0038805	1137.26	0.0004975
1092.43	0.0039796	1115.09	0.0035337	1137.74	0.0017934
1092.91	0.0034402	1115.57	0.0034748	1138.22	0.0030386
1093.39	0.0039821	1116.05	0.0050262	1138.71	0.0030614
1093.87	0.0044445	1116.53	0.0037514	1139.19	0.0031479
1094.36	0.003446	1117.01	0.0047621	1139.67	0.0030222
1094.84	0.0042331	1117.5	0.0040987	1140.15	0.0032683
1095.32	0.0058964	1117.98	0.0039186	1140.63	0.0096674
1095.8	0.004114	1118.46	0.0035564	1141.12	0.0041404
1096.29	0.0053391	1118.94	0.0033515	1141.6	0.0029033
1096.77	0.0055697	1119.42	0.0033076	1142.08	0.0032231
1097.25	0.0037051	1119.91	0.0034105	1142.56	0.0031699
1097.73	0.0036377	1120.39	0.0029999	1143.04	0.0029872
1098.21	0.0035623	1120.87	0.0006634	1143.53	0.0028089
1098.7	0.0034751	1121.35	0.0009947	1144.01	0.0033609
1099.18	0.0027183	1121.83	0.0063236	1144.49	0.002818
1099.66	0.0011847	1122.32	0.0119629	1144.97	0.0031036
1100.14	0.0037991	1122.8	0.004824	1145.45	0.0027247
1100.62	0.0037186	1123.28	0.0039149	1145.94	0.0027285
1101.11	0.0020791	1123.76	0.0038613	1146.42	0.0029039
1101.59	0.0019661	1124.24	0.0035331	1146.9	0.0021798
1102.07	0.0037329	1124.73	0.0036387	1147.38	0.0027251
1102.55	0.0035507	1125.21	0.0035424	1147.87	0.002342
1103.03	0.0058995	1125.69	0.0033821	1148.35	0.0020962
1103.52	0.0159227	1126.17	0.0035448	1148.83	0.0014886
1104	0.0047723	1126.65	0.0031924	1149.31	-0.000293
1104.48	0.0043425	1127.14	0.0032304	1149.79	0.001619
1104.96	0.0036191	1127.62	0.0033096	1150.28	0.002278
1105.44	0.0035277	1128.1	0.0033964	1150.76	0.0021092
1105.93	0.0032997	1128.58	0.0033855	1151.24	0.001351
1106.41	0.0016613	1129.06	0.0034436	1151.72	0.001001
1106.89	0.0016552	1129.55	0.003377	1152.2	0.0006276
1107.37	0.0036914	1130.03	0.0028977	1152.69	0.0009413
1107.85	0.0040796	1130.51	0.0031008	1153.17	0.0022838
1108.34	0.0035146	1130.99	0.0030328	1153.65	0.0025803
1108.82	0.0035909	1131.48	0.0032854	1154.13	0.0022559
1109.3	0.0032281	1131.96	0.0035161	1154.61	0.0026289
1109.78	0.0031885	1132.44	0.0030662	1155.1	0.002444
1110.26	0.003431	1132.92	0.0027387	1155.58	0.0024332
1110.75	0.0047108	1133.4	0.0025447	1156.06	0.0028164
1111.23	0.0012364	1133.89	0.002681	1156.54	0.0026041
1111.71	0.0017959	1134.37	0.0022018	1157.02	0.0027945
1112.19	0.003304	1134.85	0.0014951	1157.51	0.0030295

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WN	ABS	WN	ABS	WN	ABS
1157.99	0.0030351	1180.64	0.0011383	1203.3	0.0023109
1158.47	0.0034687	1181.13	0.0023663	1203.78	0.0022161
1158.95	0.0062821	1181.61	0.0023194	1204.27	0.002478
1159.43	0.0033877	1182.09	0.0023818	1204.75	0.0023508
1159.92	0.0024344	1182.57	0.0019114	1205.23	0.00244
1160.4	0.0027307	1183.06	0.0024462	1205.71	0.0015098
1160.88	0.0022146	1183.54	0.0016688	1206.19	0.0011502
1161.36	0.0026149	1184.02	0.0010854	1206.68	0.0026567
1161.84	0.0028243	1184.5	0.0018779	1207.16	0.0020031
1162.33	0.0021236	1184.98	0.0016496	1207.64	0.0024683
1162.81	0.0025922	1185.47	0.0010709	1208.12	0.00192
1163.29	0.0023876	1185.95	0.0006409	1208.6	0.000945
1163.77	0.0019569	1186.43	-0.000307	1209.09	0.0015713
1164.26	0.0023428	1186.91	-0.000813	1209.57	0.0015624
1164.74	0.0009259	1187.39	-0.000288	1210.05	0.0009538
1165.22	-8.39E-05	1187.88	0.0008131	1210.53	0.000137
1165.7	0.000359	1188.36	0.0018487	1211.01	-0.00062
1166.18	0.0014448	1188.84	0.0017704	1211.5	-0.000999
1166.67	0.0021977	1189.32	0.0023013	1211.98	-0.000672
1167.15	0.0022126	1189.8	0.0021072	1212.46	-0.00086
1167.63	0.0026848	1190.29	0.0019546	1212.94	-0.000662
1168.11	0.0022613	1190.77	0.0018615	1213.42	0.0010004
1168.59	0.0022507	1191.25	0.0007899	1213.91	0.0013755
1169.08	0.0020219	1191.73	0.0024408	1214.39	0.0013019
1169.56	0.0023828	1192.21	0.0022199	1214.87	0.0000872
1170.04	0.0021996	1192.7	0.0021614	1215.35	0.0009049
1170.52	0.0023063	1193.18	0.0018394	1215.83	0.0012274
1171	0.0020653	1193.66	0.0021594	1216.32	0.0004316
1171.49	0.0017835	1194.14	0.0026179	1216.8	0.0013899
1171.97	0.0018786	1194.62	0.002536	1217.28	0.001065
1172.45	0.0016668	1195.11	0.0031465	1217.76	-0.000519
1172.93	0.0010628	1195.59	0.002384	1218.25	-0.001116
1173.41	-0.000128	1196.07	0.0016926	1218.73	-0.000732
1173.9	-0.000358	1196.55	0.0022612	1219.21	-6.23E-05
1174.38	-0.000182	1197.03	0.0019276	1219.69	0.0002849
1174.86	-0.000344	1197.52	0.0004837	1220.17	-1.76E-05
1175.34	0.0004767	1198	-0.000294	1220.66	0.0004313
1175.82	0.0012161	1198.48	0.00013	1221.14	0.0000692
1176.31	0.0017383	1198.96	0.0015608	1221.62	0.0003915
1176.79	0.0023627	1199.45	0.0021977	1222.1	0.000684
1177.27	0.0035747	1199.93	0.0023344	1222.58	-0.000282
1177.75	0.002617	1200.41	0.0026288	1223.07	0.0004338
1178.23	0.0020735	1200.89	0.002222	1223.55	0.000087
1178.72	0.0016899	1201.37	0.0020823	1224.03	-0.000416
1179.2	0.0019999	1201.86	0.002595	1224.51	-0.000682
1179.68	0.0026458	1202.34	0.0023325	1224.99	-0.001377
1180.16	0.0019619	1202.82	0.0020524	1225.48	-0.001013

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Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
1225.96	-0.000718	1248.61	-0.000837	1271.27	-0.002474
1226.44	0.0004633	1249.1	-0.000487	1271.75	-0.002397
1226.92	0.0005522	1249.58	-0.001156	1272.24	-0.002669
1227.4	0.001722	1250.06	-0.000105	1272.72	-0.002022
1227.89	0.0020317	1250.54	-0.000507	1273.2	-0.002345
1228.37	0.0017904	1251.02	-0.000539	1273.68	-0.001889
1228.85	0.0006105	1251.51	-0.001068	1274.16	-0.001975
1229.33	-4.08E-05	1251.99	-0.000259	1274.65	-0.001761
1229.81	0.001128	1252.47	-0.000959	1275.13	-0.002086
1230.3	0.0008895	1252.95	-0.000144	1275.61	-0.001782
1230.78	0.00262	1253.44	-0.001647	1276.09	-0.001755
1231.26	0.0024903	1253.92	-0.00146	1276.57	-0.001772
1231.74	0.0021931	1254.4	-0.001408	1277.06	-0.002368
1232.22	0.0022056	1254.88	-0.001153	1277.54	-0.001998
1232.71	0.0017316	1255.36	-0.000794	1278.02	-0.001584
1233.19	0.001119	1255.85	-0.000479	1278.5	-0.001504
1233.67	0.0016974	1256.33	-0.001222	1278.98	-0.001835
1234.15	0.002182	1256.81	-0.00144	1279.47	-0.001599
1234.64	0.0021512	1257.29	-0.001461	1279.95	-0.002754
1235.12	0.0017574	1257.77	-0.001161	1280.43	-0.002222
1235.6	0.001051	1258.26	-0.001966	1280.91	-0.002176
1236.08	-0.000171	1258.74	-0.001655	1281.39	-0.002251
1236.56	0.0000411	1259.22	-0.001717	1281.88	-0.001928
1237.05	-0.000787	1259.7	-0.002071	1282.36	-0.002023
1237.53	0.0006615	1260.18	-0.002089	1282.84	-0.002593
1238.01	0.0005334	1260.67	-0.001974	1283.32	-0.002483
1238.49	0.0001992	1261.15	-0.001848	1283.8	-0.002338
1238.97	-0.00085	1261.63	-0.001526	1284.29	-0.002427
1239.46	-0.000245	1262.11	-0.001759	1284.77	-0.001953
1239.94	-0.000466	1262.59	-0.001351	1285.25	-0.001413
1240.42	0.0005502	1263.08	-0.001966	1285.73	-0.001944
1240.9	-0.000373	1263.56	-0.00183	1286.22	-0.002
1241.38	0.0004097	1264.04	-0.002271	1286.7	-0.00215
1241.87	-0.000783	1264.52	-0.001659	1287.18	-0.002345
1242.35	-0.000753	1265	-0.002052	1287.66	-0.002655
1242.83	-0.001531	1265.49	-0.002251	1288.14	-0.002532
1243.31	-0.001544	1265.97	-0.002235	1288.63	-0.002539
1243.79	-0.002138	1266.45	-0.002273	1289.11	-0.002015
1244.28	-0.001837	1266.93	-0.00232	1289.59	-0.001969
1244.76	-0.001349	1267.41	-0.002223	1290.07	-0.002295
1245.24	-0.001503	1267.9	-0.002339	1290.55	-0.002913
1245.72	-0.000948	1268.38	-0.002259	1291.04	-0.001486
1246.2	-0.000598	1268.86	-0.001896	1291.52	-0.001923
1246.69	-0.000713	1269.34	-0.002787	1292	-0.001837
1247.17	0.0003111	1269.83	-0.002778	1292.48	-0.00207
1247.65	-0.001204	1270.31	-0.00246	1292.96	-0.001798
1248.13	-0.000447	1270.79	-0.002111	1293.45	-0.002249

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Type: Absorbance

WN	ABS	WN	ABS	WN	ABS
1293.93	-0.002051	1316.58	-0.003073	1339.24	-0.003053
1294.41	-0.002057	1317.07	-0.003309	1339.72	-0.002944
1294.89	-0.002297	1317.55	-0.002993	1340.21	-0.002041
1295.37	-0.002143	1318.03	-0.002918	1340.69	-0.002775
1295.86	-0.002248	1318.51	-0.003207	1341.17	-0.003032
1296.34	-0.002501	1318.99	-0.00299	1341.65	-0.002584
1296.82	-0.002393	1319.48	-0.00289	1342.13	-0.002683
1297.3	-0.002245	1319.96	-0.002732	1342.62	-0.002163
1297.78	-0.002018	1320.44	-0.002845	1343.1	-0.002343
1298.27	-0.002039	1320.92	-0.003039	1343.58	-0.002707
1298.75	-0.001662	1321.41	-0.002785	1344.06	-0.002864
1299.23	-0.002269	1321.89	-0.002392	1344.54	-0.002347
1299.71	-0.00236	1322.37	-0.002343	1345.03	-0.001986
1300.19	-0.002045	1322.85	-0.001901	1345.51	-0.002216
1300.68	-0.002108	1323.33	-0.002728	1345.99	-0.002675
1301.16	-0.001845	1323.82	-0.002066	1346.47	-0.002034
1301.64	-0.002356	1324.3	-0.002099	1346.95	-0.002179
1302.12	-0.001697	1324.78	-0.002093	1347.44	-0.002199
1302.6	-0.001925	1325.26	-0.002172	1347.92	-0.002689
1303.09	-0.002568	1325.74	-0.00215	1348.4	-0.002858
1303.57	-0.002274	1326.23	-0.001989	1348.88	-0.00345
1304.05	-0.0021	1326.71	-0.001956	1349.36	-0.002836
1304.53	-0.002477	1327.19	-0.002525	1349.85	-0.003134
1305.02	-0.002231	1327.67	-0.002095	1350.33	-0.002488
1305.5	-0.002447	1328.15	-0.002505	1350.81	-0.002282
1305.98	-0.002113	1328.64	-0.00201	1351.29	-0.002391
1306.46	-0.002235	1329.12	-0.002156	1351.77	-0.002734
1306.94	-0.002202	1329.6	-0.002599	1352.26	-0.00241
1307.43	-0.002177	1330.08	-0.002737	1352.74	-0.00282
1307.91	-0.002583	1330.56	-0.002048	1353.22	-0.002671
1308.39	-0.002488	1331.05	-0.002184	1353.7	-0.002799
1308.87	-0.002263	1331.53	-0.00245	1354.18	-0.002967
1309.35	-0.001958	1332.01	-0.002552	1354.67	-0.002956
1309.84	-0.001896	1332.49	-0.002176	1355.15	-0.002839
1310.32	-0.002337	1332.97	-0.002109	1355.63	-0.002574
1310.8	-0.002023	1333.46	-0.00239	1356.11	-0.002599
1311.28	-0.002398	1333.94	-0.001941	1356.6	-0.00219
1311.76	-0.002566	1334.42	-0.002577	1357.08	-0.002337
1312.25	-0.002761	1334.9	-0.002755	1357.56	-0.00266
1312.73	-0.002935	1335.38	-0.00255	1358.04	-0.002854
1313.21	-0.003115	1335.87	-0.002194	1358.52	-0.002981
1313.69	-0.00276	1336.35	-0.002625	1359.01	-0.002983
1314.17	-0.003019	1336.83	-0.002963	1359.49	-0.002246
1314.66	-0.002832	1337.31	-0.003211	1359.97	-0.002875
1315.14	-0.002616	1337.8	-0.002669	1360.45	-0.002634
1315.62	-0.002704	1338.28	-0.003226	1360.93	-0.003366
1316.1	-0.002681	1338.76	-0.002718	1361.42	-0.003847



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WN	ABS	WN	ABS	WN	ABS
1361.9	-0.003686	1384.55	-0.003213	1407.21	-0.003029
1362.38	-0.003334	1385.04	-0.003006	1407.69	-0.002952
1362.86	-0.004252	1385.52	-0.00304	1408.18	-0.002572
1363.34	-0.002654	1386	-0.003052	1408.66	-0.00334
1363.83	-0.003045	1386.48	-0.003689	1409.14	-0.002993
1364.31	-0.003124	1386.96	-0.002877	1409.62	-0.00366
1364.79	-0.003387	1387.45	-0.002424	1410.1	-0.0037
1365.27	-0.002534	1387.93	-0.004301	1410.59	-0.003642
1365.75	-0.002773	1388.41	-0.00384	1411.07	-0.002309
1366.24	-0.002641	1388.89	-0.003741	1411.55	-0.002735
1366.72	-0.002532	1389.37	-0.003693	1412.03	-0.002791
1367.2	-0.002731	1389.86	-0.002757	1412.51	-0.003152
1367.68	-0.003072	1390.34	-0.003065	1413	-0.002433
1368.16	-0.002735	1390.82	-0.002874	1413.48	-0.002916
1368.65	-0.002964	1391.3	-0.002971	1413.96	-0.002696
1369.13	-0.002719	1391.79	-0.002363	1414.44	-0.003393
1369.61	-0.002912	1392.27	-0.003111	1414.92	-0.002987
1370.09	-0.002998	1392.75	-0.003326	1415.41	-0.003668
1370.57	-0.003439	1393.23	-0.003509	1415.89	-0.003047
1371.06	-0.002753	1393.71	-0.003408	1416.37	-0.003842
1371.54	-0.002822	1394.2	-0.00322	1416.85	-0.00261
1372.02	-0.003039	1394.68	-0.004207	1417.33	-0.00349
1372.5	-0.00323	1395.16	-0.003555	1417.82	-0.004079
1372.99	-0.0036	1395.64	-0.002686	1418.3	-0.003531
1373.47	-0.003179	1396.12	-0.003457	1418.78	-0.001271
1373.95	-0.003518	1396.61	-0.003177	1419.26	0.0000306
1374.43	-0.003015	1397.09	-0.003949	1419.74	-0.004267
1374.91	-0.002898	1397.57	-0.003434	1420.23	-0.003653
1375.4	-0.00382	1398.05	-0.003468	1420.71	-0.003008
1375.88	-0.003436	1398.53	-0.003093	1421.19	-0.004066
1376.36	-0.003307	1399.02	-0.002338	1421.67	-0.003418
1376.84	-0.002369	1399.5	-0.004586	1422.15	-0.003889
1377.32	-0.002912	1399.98	-0.003314	1422.64	-0.003218
1377.81	-0.00323	1400.46	-0.002815	1423.12	-0.003608
1378.29	-0.003432	1400.94	-0.00312	1423.6	-0.001859
1378.77	-0.002411	1401.43	-0.003687	1424.08	-0.002392
1379.25	-0.003256	1401.91	-0.003284	1424.57	-0.003462
1379.73	-0.003211	1402.39	-0.002906	1425.05	-0.003784
1380.22	-0.002979	1402.87	-0.00339	1425.53	-0.004227
1380.7	-0.00278	1403.35	-0.003707	1426.01	-0.002948
1381.18	-0.002715	1403.84	-0.002928	1426.49	-0.003162
1381.66	-0.002367	1404.32	-0.003225	1426.98	-0.002733
1382.14	-0.002627	1404.8	-0.002783	1427.46	-0.003568
1382.63	-0.002972	1405.28	-0.003162	1427.94	-0.002878
1383.11	-0.003408	1405.76	-0.003108	1428.42	-0.003391
1383.59	-0.003021	1406.25	-0.003031	1428.9	-0.003351
1384.07	-0.002537	1406.73	-0.003575	1429.39	-0.002218

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Type: Absorbance

WN	ABS
1429.87	-0.001669
1430.35	-0.003538
1430.83	-0.004007
1431.31	-0.00272
1431.8	-0.003275
1432.28	-0.003182
1432.76	-0.002795
1433.24	-0.003706
1433.72	-0.004139
1434.21	-0.003942
1434.69	-0.002682
1435.17	-0.002576
1435.65	-0.003566
1436.13	-0.001524
1436.62	0.000454
1437.1	-0.006798
1437.58	-0.002514
1438.06	-0.003702
1438.54	-0.00289
1439.03	-0.002942
1439.51	-0.002714
1439.99	-0.003137
1440.47	-0.003143
1440.95	-0.003311
1441.44	-0.003999
1441.92	-0.00313
1442.4	-0.003142
1442.88	-0.004066
1443.37	-0.002559
1443.85	-0.00293
1444.33	-0.003059
1444.81	-0.00304
1445.29	-0.003544
1445.78	-0.003017
1446.26	-0.002557
1446.74	-0.003136
1447.22	-0.003122
1447.7	-0.002078
1448.19	-0.005105
1448.67	-0.003732
1449.15	-0.00346
1449.63	-0.002558
1450.11	-0.003826

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Subfile: 0701

Type: 40 deg C BB

WN	INT
750.173	42632.8
750.655	42872.7
751.137	43107.9
751.619	43320.8
752.101	43513.5
752.583	43684.6
753.066	43836.4
753.548	44042.6
754.03	44220.5
754.512	44370
754.994	44604.4
755.476	44819.8
755.958	44971.5
756.44	45145.4
756.922	45276.6
757.404	45404.7
757.886	45530.9
758.368	45676.9
758.85	45850.6
759.332	45929.4
759.814	46097.6
760.296	46268.2
760.778	46357.7
761.26	46476.6
761.743	46621.4
762.225	46743.5
762.707	46853.1
763.189	46963.4
763.671	47055.4
764.153	47149.8
764.635	47268.7
765.117	47420.7
765.599	47520.8
766.081	47678
766.563	47804.4
767.045	47880.7
767.527	47991.5
768.009	48057.1
768.491	48149.8
768.973	48254.5
769.455	48370.1
769.937	48488.1
770.42	48631.4
770.902	48788.8
771.384	48886.5
771.866	48979.2
772.348	49079.2

WN	INT
772.83	49180.1
773.312	49281.9
773.794	49377.4
774.276	49525.8
774.758	49657
775.24	49775
775.722	49856.3
776.204	49946.8
776.686	50110.1
777.168	50185
777.65	50358.4
778.132	50432.6
778.614	50556.6
779.097	50665.7
779.579	50703.3
780.061	50762.7
780.543	50856.2
781.025	50907.4
781.507	50967.6
781.989	51073.3
782.471	51097.4
782.953	51153.4
783.435	51193.6
783.917	51227.2
784.399	51190.5
784.881	51257.9
785.363	51283.9
785.845	51293.6
786.327	51323.3
786.809	51318.9
787.292	51296.3
787.774	51268
788.256	51210.8
788.738	51199.9
789.22	51135.1
789.702	51116.1
790.184	51081.5
790.666	51011.2
791.148	50958.1
791.63	50909.1
792.112	50834.5
792.594	50739
793.076	50657.6
793.558	50543.3
794.04	50481.1
794.522	50451.1
795.004	50386.8

WN	INT
795.486	50357.9
795.969	50207.4
796.451	50213.8
796.933	50135.1
797.415	50106
797.897	50050.4
798.379	49971.2
798.861	49891.8
799.343	49941.3
799.825	49911
800.307	49858.1
800.789	49835.4
801.271	49818.5
801.753	49820.4
802.235	49846
802.717	49885.2
803.199	49937.6
803.681	49983.5
804.163	50063.4
804.646	50119.8
805.128	50197.3
805.61	50297.5
806.092	50403.3
806.574	50503.7
807.056	50603.8
807.538	50720.2
808.02	50878.3
808.502	51037.1
808.984	51196.6
809.466	51387.1
809.948	51584.3
810.43	51745.9
810.912	51929.9
811.394	52074
811.876	52281
812.358	52458.7
812.84	52575.2
813.322	52705.6
813.805	52907.7
814.287	53112.2
814.769	53185.5
815.251	53306.9
815.733	53394.7
816.215	53547.1
816.697	53681.8
817.179	53770.1
817.661	53894.4

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Subfile: 0701

Type: 40 deg C BB

WN	INT
818.143	54001.7
818.625	54130.5
819.107	54248.3
819.589	54373.4
820.071	54516.3
820.553	54608.5
821.035	54754.6
821.517	54895.1
822	55066.4
822.482	55269.2
822.964	55415.8
823.446	55608.3
823.928	55787.4
824.41	56025
824.892	56258.2
825.374	56496.9
825.856	56719.6
826.338	57010.9
826.82	57310.1
827.302	57539.8
827.784	57804.5
828.266	58026.2
828.748	58296
829.23	58491.5
829.712	58682.3
830.194	58887.6
830.677	59150.8
831.159	59353
831.641	59530.3
832.123	59727
832.605	59945.9
833.087	60160
833.569	60372.7
834.051	60552.9
834.533	60714.1
835.015	60895.1
835.497	61079.5
835.979	61232.5
836.461	61361
836.943	61493.4
837.425	61601.6
837.907	61723.2
838.389	61857.5
838.871	61988.2
839.353	62128.2
839.836	62277.2
840.318	62363.2

WN	INT
840.8	62472.5
841.282	62562.9
841.764	62696.2
842.246	62787.5
842.728	62880.3
843.21	62983.8
843.692	63106.6
844.174	63166.2
844.656	63244.5
845.138	63307.5
845.62	63371.5
846.102	63473.9
846.584	63549.5
847.066	63613.4
847.548	63693.5
848.03	63792.7
848.513	63874.5
848.995	63928.5
849.477	63986.3
849.959	64003.8
850.441	64033.4
850.923	64074.2
851.405	64143.5
851.887	64142.9
852.369	64201.6
852.851	64202.9
853.333	64251.4
853.815	64255.5
854.297	64312.5
854.779	64315
855.261	64334.9
855.743	64354.9
856.225	64350.4
856.707	64324.5
857.19	64358.3
857.672	64415.5
858.154	64434.5
858.636	64529.2
859.118	64550.3
859.6	64585.6
860.082	64632
860.564	64641.1
861.046	64659.6
861.528	64701.7
862.01	64771.7
862.492	64829.7
862.974	64887.9

WN	INT
863.456	64908
863.938	64962.6
864.42	65039.5
864.902	65140.7
865.384	65220.7
865.867	65241.1
866.349	65246
866.831	65259.7
867.313	65298.9
867.795	65339.4
868.277	65432.5
868.759	65493.9
869.241	65541.1
869.723	65591.4
870.205	65656.6
870.687	65767.8
871.169	65885
871.651	65931.3
872.133	65973.5
872.615	66047.9
873.097	66119
873.579	66117.6
874.061	66156.8
874.544	66209.1
875.026	66247
875.508	66305.8
875.99	66380.2
876.472	66451.6
876.954	66480
877.436	66521.7
877.918	66604.5
878.4	66712.8
878.882	66775.5
879.364	66846.6
879.846	66921.1
880.328	67004
880.81	67098.4
881.292	67213
881.774	67268.8
882.256	67335
882.738	67446.1
883.221	67516.2
883.703	67561.6
884.185	67600.5
884.667	67592.7
885.149	67647
885.631	67725.2

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Type: 40 deg C BB

WN	INT
886.113	67797.6
886.595	67840.3
887.077	67939.8
887.559	67958.5
888.041	67986.6
888.523	68061.9
889.005	68122.7
889.487	68137.7
889.969	68175.1
890.451	68183.4
890.933	68239.2
891.415	68319.4
891.898	68368.6
892.38	68400
892.862	68438.6
893.344	68460.1
893.826	68513.1
894.308	68537.8
894.79	68615.7
895.272	68613.1
895.754	68603
896.236	68612.2
896.718	68662.7
897.2	68672
897.682	68725.4
898.164	68777.6
898.646	68796
899.128	68796.6
899.61	68864.5
900.092	68854.9
900.575	68843.4
901.057	68851.2
901.539	68873.2
902.021	68900.9
902.503	68895.4
902.985	68869.8
903.467	68903.3
903.949	68950.7
904.431	68971.2
904.913	69001.2
905.395	69000.4
905.877	69004.8
906.359	69053.5
906.841	69068.1
907.323	69097.4
907.805	69116.5
908.287	69091.2

WN	INT
908.769	69104.2
909.252	69102.9
909.734	69065.8
910.216	69087.7
910.698	69073.3
911.18	69065
911.662	69053.1
912.144	69087.6
912.626	69059
913.108	69010
913.59	69029.9
914.072	69053.9
914.554	69030.8
915.036	69018.5
915.518	68997.1
916	69029.3
916.482	69014
916.964	68985.5
917.446	68964.5
917.929	68941.6
918.411	68946.2
918.893	68953.3
919.375	68924.8
919.857	68925.9
920.339	68881.5
920.821	68879.5
921.303	68853.4
921.785	68850.4
922.267	68813.1
922.749	68752.3
923.231	68717.3
923.713	68727.2
924.195	68747.3
924.677	68768.3
925.159	68772.7
925.641	68710.1
926.124	68655.8
926.606	68661.2
927.088	68630.4
927.57	68594.3
928.052	68596.8
928.534	68620.8
929.016	68664.4
929.498	68683.2
929.98	68673.9
930.462	68648.7
930.944	68614.3

WN	INT
931.426	68600.6
931.908	68629.1
932.39	68607.5
932.872	68566.1
933.354	68523.4
933.836	68458.4
934.318	68463.5
934.801	68506.4
935.283	68488.7
935.765	68497.6
936.247	68488
936.729	68434.9
937.211	68437.2
937.693	68462.2
938.175	68429.4
938.657	68405.6
939.139	68401.7
939.621	68383.1
940.103	68372
940.585	68345.7
941.067	68309.1
941.549	68294.5
942.031	68257.7
942.513	68219
942.995	68181.5
943.478	68133.8
943.96	68114.4
944.442	68088.1
944.924	68093.4
945.406	68078.1
945.888	68014.6
946.37	67978.8
946.852	67977.7
947.334	67922.2
947.816	67912.1
948.298	67950
948.78	67881.8
949.262	67847.5
949.744	67843.5
950.226	67803.4
950.708	67746.9
951.19	67753.4
951.672	67751.7
952.155	67670.5
952.637	67631
953.119	67608.4
953.601	67562.1

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Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
954.083	67511.9	976.739	64962.6	999.396	60655.7
954.565	67452.9	977.221	64896.4	999.878	60480.6
955.047	67444.8	977.703	64793.3	1000.36	60359.4
955.529	67389.6	978.186	64736.6	1000.84	60210.3
956.011	67352	978.668	64643.4	1001.32	60042.4
956.493	67340.7	979.15	64541.4	1001.8	59924.5
956.975	67293.1	979.632	64493.2	1002.28	59767.4
957.457	67264	980.114	64357.4	1002.77	59581.1
957.939	67216.6	980.596	64293.8	1003.25	59416.5
958.421	67131.2	981.078	64212.1	1003.73	59219.6
958.903	67078.7	981.56	64165.1	1004.21	59021.7
959.385	67029.8	982.042	64091.7	1004.69	58829.3
959.867	66985.5	982.524	64018.4	1005.18	58649
960.349	66908.2	983.006	63954.5	1005.66	58477.2
960.832	66832.3	983.488	63882	1006.14	58310.5
961.314	66804.6	983.97	63793.5	1006.62	58090.9
961.796	66769.8	984.452	63715.1	1007.1	57862.9
962.278	66700.7	984.934	63635.1	1007.59	57641.1
962.76	66656	985.416	63539.2	1008.07	57424.8
963.242	66588.9	985.898	63433.6	1008.55	57201.6
963.724	66547	986.38	63366.7	1009.03	56961.5
964.206	66493.9	986.863	63318.7	1009.51	56727.6
964.688	66445.3	987.345	63238.1	1010	56503.2
965.17	66377.8	987.827	63196.8	1010.48	56265.3
965.652	66326.4	988.309	63095.7	1010.96	56034.6
966.134	66335.9	988.791	63032.2	1011.44	55811.6
966.616	66278.5	989.273	62974.5	1011.92	55627.5
967.098	66212.8	989.755	62875.7	1012.41	55358.9
967.58	66172.4	990.237	62763.2	1012.89	55117.6
968.062	66109.1	990.719	62655.1	1013.37	54909.8
968.544	66055.3	991.201	62546.1	1013.85	54689.1
969.026	66008.9	991.683	62446.9	1014.34	54489.3
969.509	65947.3	992.165	62335.3	1014.82	54249.1
969.991	65878.5	992.647	62251.1	1015.3	54053.5
970.473	65807.1	993.129	62170.5	1015.78	53844
970.955	65742	993.611	62068.2	1016.26	53627.6
971.437	65671	994.093	61957	1016.75	53430.2
971.919	65588.2	994.575	61838.3	1017.23	53242.2
972.401	65494.2	995.057	61726.5	1017.71	53087.2
972.883	65449.9	995.54	61620.5	1018.19	52924.3
973.365	65425.7	996.022	61501	1018.67	52793.8
973.847	65348.2	996.504	61411.7	1019.16	52648.2
974.329	65294	996.986	61328.2	1019.64	52531.5
974.811	65277.9	997.468	61214.4	1020.12	52348.5
975.293	65193.5	997.95	61060.2	1020.6	52194.4
975.775	65127.2	998.432	60942.1	1021.08	52037.1
976.257	65041.5	998.914	60823.8	1021.57	51887.3

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Type: 40 deg C BB

WN	INT
1022.05	51782.4
1022.53	51656.6
1023.01	51502.9
1023.49	51383.4
1023.98	51301
1024.46	51203.8
1024.94	51100.5
1025.42	50994.8
1025.91	50893.6
1026.39	50796.3
1026.87	50725.6
1027.35	50651.6
1027.83	50538.6
1028.32	50500.3
1028.8	50426.9
1029.28	50332.4
1029.76	50283
1030.24	50254.2
1030.73	50215.1
1031.21	50150.8
1031.69	50073.9
1032.17	49982.5
1032.65	49925.2
1033.14	49862.7
1033.62	49727.7
1034.1	49640.6
1034.58	49570.9
1035.06	49551.4
1035.55	49518.5
1036.03	49390.9
1036.51	49285.7
1036.99	49188
1037.47	49140.3
1037.96	49065.3
1038.44	49013.3
1038.92	48915.2
1039.4	48815.8
1039.88	48708.5
1040.37	48622.6
1040.85	48513.2
1041.33	48447.4
1041.81	48375.1
1042.29	48308.1
1042.78	48227.1
1043.26	48146.3
1043.74	48082.1
1044.22	48007.7

WN	INT
1044.71	47954.4
1045.19	47924.7
1045.67	47850.9
1046.15	47765.1
1046.63	47730.9
1047.12	47663.8
1047.6	47582
1048.08	47503.2
1048.56	47473.3
1049.04	47426.2
1049.53	47359.7
1050.01	47325.5
1050.49	47308.6
1050.97	47256.4
1051.45	47193.2
1051.94	47143.6
1052.42	47117.1
1052.9	47073
1053.38	47031.2
1053.86	46960.2
1054.35	46874.2
1054.83	46814
1055.31	46765.8
1055.79	46695.3
1056.27	46611.2
1056.76	46559.1
1057.24	46504.7
1057.72	46445.9
1058.2	46363.8
1058.68	46294
1059.17	46245
1059.65	46167.8
1060.13	46085.5
1060.61	45950.1
1061.1	45865.7
1061.58	45810.3
1062.06	45760.5
1062.54	45674
1063.02	45559.3
1063.51	45466.3
1063.99	45345.6
1064.47	45256.1
1064.95	45152.5
1065.43	45048.1
1065.92	44943.8
1066.4	44875
1066.88	44777.2

WN	INT
1067.36	44669
1067.84	44562.5
1068.33	44416.3
1068.81	44302.3
1069.29	44219.8
1069.77	44110.6
1070.25	44019.6
1070.74	43889.4
1071.22	43786.4
1071.7	43673.4
1072.18	43549.7
1072.66	43449.5
1073.15	43341.6
1073.63	43192.8
1074.11	43115.4
1074.59	43035.3
1075.07	42917.2
1075.56	42843.5
1076.04	42779.2
1076.52	42625.7
1077	42488.8
1077.48	42390.5
1077.97	42264.4
1078.45	42134.1
1078.93	41979.5
1079.41	41854.7
1079.9	41769.1
1080.38	41673.6
1080.86	41558.9
1081.34	41408.4
1081.82	41296.9
1082.31	41176.2
1082.79	41049.9
1083.27	40952.6
1083.75	40845.8
1084.23	40734.9
1084.72	40623.7
1085.2	40502.3
1085.68	40388.6
1086.16	40284.8
1086.64	40167.9
1087.13	40059.8
1087.61	39955.6
1088.09	39850
1088.57	39736.1
1089.05	39672
1089.54	39589

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Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1090.02	39442.7	1112.68	36975.1	1135.33	37183.5
1090.5	39370.5	1113.16	36939.1	1135.81	37104.3
1090.98	39309.3	1113.64	36922.7	1136.3	37192.1
1091.46	39204.1	1114.12	36915.2	1136.78	37199.6
1091.95	39085.8	1114.6	36911.9	1137.26	37190.7
1092.43	38990.2	1115.09	36889.8	1137.74	37149.3
1092.91	38872.9	1115.57	36893.6	1138.22	37128.1
1093.39	38738.2	1116.05	36861.3	1138.71	37125.6
1093.87	38649.1	1116.53	36837.3	1139.19	37175.7
1094.36	38601	1117.01	36836.3	1139.67	37170.6
1094.84	38507.6	1117.5	36832.2	1140.15	37148
1095.32	38381.8	1117.98	36797.2	1140.63	37137.9
1095.8	38306.3	1118.46	36773.5	1141.12	37118
1096.29	38229.3	1118.94	36775.4	1141.6	37096.3
1096.77	38141	1119.42	36797.4	1142.08	37058.7
1097.25	38082.4	1119.91	36774.2	1142.56	37034
1097.73	38018.1	1120.39	36784.5	1143.04	36987.8
1098.21	37925.2	1120.87	36788.8	1143.53	36950.7
1098.7	37882.6	1121.35	36788.2	1144.01	36935.9
1099.18	37842.8	1121.83	36796.7	1144.49	36920.1
1099.66	37797.2	1122.32	36811	1144.97	36893.2
1100.14	37744.7	1122.8	36815.3	1145.45	36847.2
1100.62	37664.1	1123.28	36835.9	1145.94	36834.7
1101.11	37667.3	1123.76	36850.4	1146.42	36823.8
1101.59	37624.4	1124.24	36874.8	1146.9	36791.7
1102.07	37552	1124.73	36885	1147.38	36751.4
1102.55	37499.9	1125.21	36861.5	1147.87	36739.7
1103.03	37445.2	1125.69	36894.2	1148.35	36691.8
1103.52	37371.7	1126.17	36929.9	1148.83	36671.7
1104	37348.7	1126.65	36941.6	1149.31	36603.7
1104.48	37324.9	1127.14	36978.7	1149.79	36563.2
1104.96	37275.7	1127.62	36975.9	1150.28	36540.9
1105.44	37269.8	1128.1	36999.8	1150.76	36557
1105.93	37228.5	1128.58	37016.3	1151.24	36531.1
1106.41	37206.2	1129.06	37018.2	1151.72	36459.3
1106.89	37146.7	1129.55	37052.9	1152.2	36376.5
1107.37	37139.1	1130.03	37067.5	1152.69	36321.5
1107.85	37128.4	1130.51	37069.8	1153.17	36302.6
1108.34	37122.8	1130.99	37049.8	1153.65	36253.8
1108.82	37095.6	1131.48	37058.2	1154.13	36193.7
1109.3	37077.5	1131.96	37107.2	1154.61	36134.1
1109.78	37070.4	1132.44	37129	1155.1	36097.7
1110.26	37091.1	1132.92	37129.6	1155.58	36024
1110.75	37088.2	1133.4	37158.8	1156.06	35958.2
1111.23	37093.1	1133.89	37196.6	1156.54	35905.9
1111.71	37052	1134.37	37181.5	1157.02	35861.3
1112.19	36999.6	1134.85	37194.2	1157.51	35847.3



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Type: 40 deg C BB

WN	INT
1157.99	35806.5
1158.47	35748
1158.95	35674.5
1159.43	35656.8
1159.92	35658.7
1160.4	35641.7
1160.88	35562.7
1161.36	35475.5
1161.84	35410.9
1162.33	35318.3
1162.81	35258.1
1163.29	35213.7
1163.77	35155
1164.26	35085.4
1164.74	35070.3
1165.22	35007.1
1165.7	34948.3
1166.18	34880.2
1166.67	34826.6
1167.15	34776.5
1167.63	34718.3
1168.11	34694.5
1168.59	34620.5
1169.08	34566.8
1169.56	34536
1170.04	34470.5
1170.52	34419.5
1171	34360.7
1171.49	34327.5
1171.97	34228.4
1172.45	34175.2
1172.93	34125.9
1173.41	34075.5
1173.9	34029.4
1174.38	33895.3
1174.86	33925.2
1175.34	33857.4
1175.82	33800.3
1176.31	33762.3
1176.79	33697.6
1177.27	33615.1
1177.75	33579.3
1178.23	33541.2
1178.72	33471.9
1179.2	33400.8
1179.68	33358.9
1180.16	33308

WN	INT
1180.64	33257.8
1181.13	33187.6
1181.61	33141.3
1182.09	33121.6
1182.57	33095.2
1183.06	33041.6
1183.54	33008.2
1184.02	32960.4
1184.5	32933.2
1184.98	32888
1185.47	32847.4
1185.95	32801.4
1186.43	32746.1
1186.91	32576.5
1187.39	32636.6
1187.88	32616.3
1188.36	32582.2
1188.84	32535.8
1189.32	32464.2
1189.8	32445.8
1190.29	32398.7
1190.77	32370.5
1191.25	32327.3
1191.73	32263.3
1192.21	32222.6
1192.7	32207.2
1193.18	32191.1
1193.66	32114.5
1194.14	32063.8
1194.62	32027.3
1195.11	31980.1
1195.59	31938.6
1196.07	31878.9
1196.55	31830.4
1197.03	31798
1197.52	31767.8
1198	31684
1198.48	31643
1198.96	31642.6
1199.45	31577
1199.93	31515.3
1200.41	31462.1
1200.89	31400.5
1201.37	31400.5
1201.86	31382
1202.34	31309
1202.82	31245.9

WN	INT
1203.3	31196.3
1203.78	31130.9
1204.27	31084.1
1204.75	31038.2
1205.23	31007.9
1205.71	30930
1206.19	30878.6
1206.68	30812.4
1207.16	30757.4
1207.64	30703.7
1208.12	30646.5
1208.6	30598.4
1209.09	30548.6
1209.57	30493.6
1210.05	30440.3
1210.53	30390.4
1211.01	30304.4
1211.5	30265.1
1211.98	30180.4
1212.46	30085.9
1212.94	30117
1213.42	30086.3
1213.91	30034.8
1214.39	29982.2
1214.87	29943.8
1215.35	29900.6
1215.83	29856.8
1216.32	29780.4
1216.8	29742.8
1217.28	29685.7
1217.76	29626.7
1218.25	29569.1
1218.73	29508.3
1219.21	29463.9
1219.69	29429.4
1220.17	29378.2
1220.66	29321.3
1221.14	29265.6
1221.62	29204.5
1222.1	29155
1222.58	29141.5
1223.07	29120.5
1223.55	29041.7
1224.03	28996.3
1224.51	28926.9
1224.99	28705.9
1225.48	28757.7

Filenam HMA0213  
Subfile: 0701

Type: 40 deg C BB

WN	INT	WN	INT	WN	INT
1225.96	28736.7	1248.61	25744.2	1271.27	23110.5
1226.44	28675.2	1249.1	25658.3	1271.75	22668
1226.92	28674.7	1249.58	25537.8	1272.24	23198.2
1227.4	28624.3	1250.06	25440.2	1272.72	23228.9
1227.89	28536.1	1250.54	25357.5	1273.2	23225.2
1228.37	28482.1	1251.02	25243.8	1273.68	23207.5
1228.85	28411.8	1251.51	25123.7	1274.16	23210.4
1229.33	28343	1251.99	24989.9	1274.65	23180.2
1229.81	28309.1	1252.47	24850.1	1275.13	23150.5
1230.3	28243.3	1252.95	24723.1	1275.61	23150.7
1230.78	28184.7	1253.44	24564.6	1276.09	23163.3
1231.26	28099.9	1253.92	24401.2	1276.57	23102.9
1231.74	28050	1254.4	24210.4	1277.06	23090.5
1232.22	28007.2	1254.88	23992.9	1277.54	23066.2
1232.71	27957.1	1255.36	23796.9	1278.02	23017.5
1233.19	27868.4	1255.85	23602.6	1278.5	22959.1
1233.67	27836.9	1256.33	23410.8	1278.98	22923.5
1234.15	27777.1	1256.81	23199.5	1279.47	22890.7
1234.64	27705.3	1257.29	22992.2	1279.95	22777.9
1235.12	27664	1257.77	22783.2	1280.43	22814
1235.6	27591	1258.26	22594.9	1280.91	22775.9
1236.08	27535.3	1258.74	22410.1	1281.39	22732.2
1236.56	27460.8	1259.22	22270	1281.88	22717.2
1237.05	27414	1259.7	22112.5	1282.36	22684.7
1237.53	27364.1	1260.18	21688.2	1282.84	22648.3
1238.01	27290.5	1260.67	21782.1	1283.32	22616.2
1238.49	27250.4	1261.15	21812.2	1283.8	22583
1238.97	27184.6	1261.63	21758.3	1284.29	22518.9
1239.46	27142.7	1262.11	21745.1	1284.77	22499
1239.94	27110.5	1262.59	21767.9	1285.25	22430.6
1240.42	27014.8	1263.08	21822	1285.73	22397.2
1240.9	26937.6	1263.56	21877.5	1286.22	22347
1241.38	26851.8	1264.04	21941.9	1286.7	22290.1
1241.87	26794.8	1264.52	22076.3	1287.18	22056.4
1242.35	26724.8	1265	22141.3	1287.66	22033.5
1242.83	26661.8	1265.49	22239.2	1288.14	21936.8
1243.31	26597.3	1265.97	22322.1	1288.63	22083.3
1243.79	26473.5	1266.45	22464.1	1289.11	22053.9
1244.28	26313.8	1266.93	22603.6	1289.59	22042.2
1244.76	26389.6	1267.41	22714	1290.07	21972.5
1245.24	26307.9	1267.9	22784.6	1290.55	21760.2
1245.72	26227.9	1268.38	22795.9	1291.04	21909.4
1246.2	26156.6	1268.86	23028.7	1291.52	21867.3
1246.69	26092	1269.34	23036.6	1292	21817.8
1247.17	25991.1	1269.83	22844.7	1292.48	21784.1
1247.65	25905.7	1270.31	23059.3	1292.96	21743.4
1248.13	25821.3	1270.79	23139.4	1293.45	21712.7

Filenam HMA0213  
Subfile: 0701

Type: 40 deg C BB

WN	INT
1293.93	21668.7
1294.41	21604
1294.89	21565.5
1295.37	21543.5
1295.86	21489.9
1296.34	21348.8
1296.82	21279.9
1297.3	21325.7
1297.78	21286.9
1298.27	21258.3
1298.75	21220.3
1299.23	21150.6
1299.71	21125.9
1300.19	21081.3
1300.68	21053.1
1301.16	20988.7
1301.64	20922.8
1302.12	20867
1302.6	20825.7
1303.09	20766.9
1303.57	20720.8
1304.05	20690.3
1304.53	20633.5
1305.02	20579.3
1305.5	20472.2
1305.98	20491.9
1306.46	20416.6
1306.94	20358.2
1307.43	20329.2
1307.91	20108.8
1308.39	20012.2
1308.87	20169.7
1309.35	20123.4
1309.84	20055.2
1310.32	20001.9
1310.8	19938.9
1311.28	19918.8
1311.76	19866
1312.25	19462.4
1312.73	19262.8
1313.21	19449.9
1313.69	19204.1
1314.17	19519.1
1314.66	19155.3
1315.14	19515.2
1315.62	19497.3
1316.1	19385.7

WN	INT
1316.58	19141.4
1317.07	18572.8
1317.55	19227.6
1318.03	19224.6
1318.51	18845.2
1318.99	17991.3
1319.48	19032.6
1319.96	18786.8
1320.44	19002.7
1320.92	18849.3
1321.41	19062.7
1321.89	19028.2
1322.37	18998.1
1322.85	18941.1
1323.33	18805
1323.82	18903
1324.3	18897.4
1324.78	18852.1
1325.26	18825.8
1325.74	18781.9
1326.23	18739.7
1326.71	18706.7
1327.19	18688.4
1327.67	18624
1328.15	18620.1
1328.64	18567.1
1329.12	18515.7
1329.6	18416.6
1330.08	18330.4
1330.56	18372.5
1331.05	18324.1
1331.53	18240
1332.01	18164.1
1332.49	18088.9
1332.97	18025.6
1333.46	17970.2
1333.94	17912.8
1334.42	17822
1334.9	17755.1
1335.38	17682.2
1335.87	17613.3
1336.35	17028.8
1336.83	16357.7
1337.31	17305.3
1337.8	17178.6
1338.28	16482.2
1338.76	16033.7

WN	INT
1339.24	15961.1
1339.72	16357.8
1340.21	15368.5
1340.69	15972.3
1341.17	16877.8
1341.65	16918.3
1342.13	16907.6
1342.62	16879.4
1343.1	16844.2
1343.58	16800.5
1344.06	16757.3
1344.54	16746.2
1345.03	16701.6
1345.51	16669.2
1345.99	16614.4
1346.47	16582.7
1346.95	16523.6
1347.44	16468.4
1347.92	16436.2
1348.4	16384.5
1348.88	16238.2
1349.36	15891.6
1349.85	16239
1350.33	16207.1
1350.81	16156.9
1351.29	16115.1
1351.77	16070.6
1352.26	16002.6
1352.74	15972.8
1353.22	15915
1353.7	15850.9
1354.18	15748.2
1354.67	15271.7
1355.15	15420.1
1355.63	15567.5
1356.11	15524.1
1356.6	15468.4
1357.08	15378.7
1357.56	15286
1358.04	14965.2
1358.52	15208.3
1359.01	15143.6
1359.49	15090
1359.97	15037.5
1360.45	14809.5
1360.93	13463.8
1361.42	14430.7

Filenam HMA0213  
Subfile: 0701

Type: 40 deg C BB

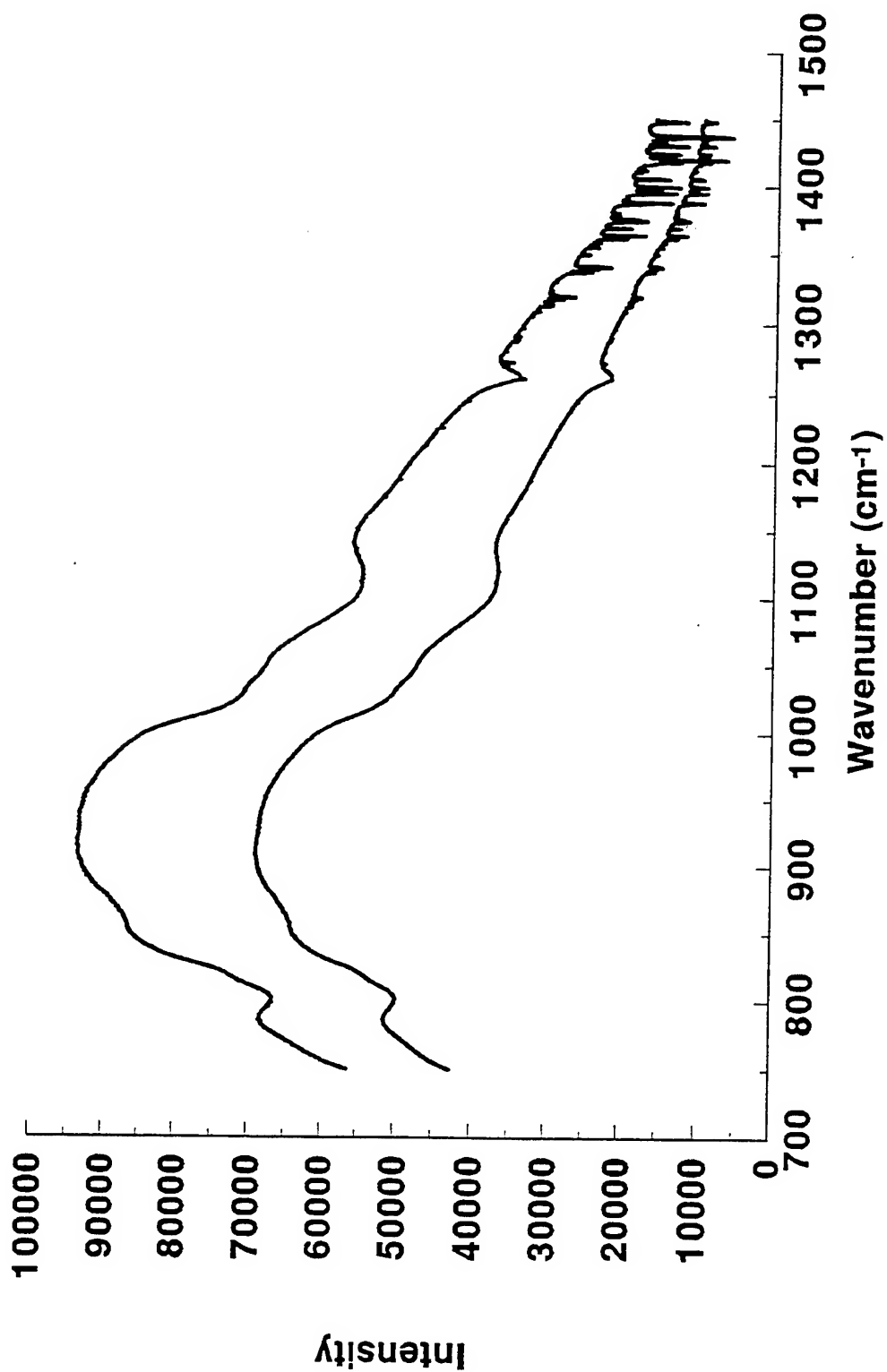
WN	INT	WN	INT	WN	INT
1361.9	14662.1	1384.55	13338.2	1407.21	11810.1
1362.38	14056.4	1385.04	13272.4	1407.69	11818.5
1362.86	13008	1385.52	13214.6	1408.18	11789.7
1363.34	12306	1386	12943.1	1408.66	11759.2
1363.83	14513.3	1386.48	12175.3	1409.14	11759.3
1364.31	14636.3	1386.96	12328.6	1409.62	11618.9
1364.79	14622.5	1387.45	10076.9	1410.1	11407.1
1365.27	14638.9	1387.93	12290.5	1410.59	11633.7
1365.75	14601.7	1388.41	12813.4	1411.07	11520.1
1366.24	14558.8	1388.89	12853.7	1411.55	11156.1
1366.72	14535.5	1389.37	12836	1412.03	11233.7
1367.2	14511.5	1389.86	12768.7	1412.51	11475.8
1367.68	14443.3	1390.34	12683.4	1413	11424.3
1368.16	14101.6	1390.82	12538.3	1413.48	11366.6
1368.65	13161	1391.3	12580	1413.96	11293.1
1369.13	14311	1391.79	12585.3	1414.44	11235.6
1369.61	14308.7	1392.27	12502.5	1414.92	11148.7
1370.09	14264	1392.75	12438.6	1415.41	11084.2
1370.57	14264.8	1393.23	12313.7	1415.89	10594.2
1371.06	14201.4	1393.71	11975.3	1416.37	10673.4
1371.54	14170.5	1394.2	10270.9	1416.85	10583.3
1372.02	14024.7	1394.68	9711.5	1417.33	9305.36
1372.5	13974.5	1395.16	11605.7	1417.82	10336.7
1372.99	13889.7	1395.64	10714.7	1418.3	10338.5
1373.47	12725.6	1396.12	11452	1418.78	8866.39
1373.95	12004.4	1396.61	11971.8	1419.26	7131.44
1374.43	13507.1	1397.09	11936	1419.74	8239.58
1374.91	12572.1	1397.57	11126.5	1420.23	10233.9
1375.4	13198.9	1398.05	11518.5	1420.71	10563.5
1375.88	13760.2	1398.53	11423	1421.19	10667.2
1376.36	13785.5	1399.02	9666.93	1421.67	10726.7
1376.84	13783.4	1399.5	10526.1	1422.15	10737.4
1377.32	13778.2	1399.98	11699.7	1422.64	10708
1377.81	13387	1400.46	11850.4	1423.12	10470.2
1378.29	13478.4	1400.94	11897	1423.6	9462.79
1378.77	13674.2	1401.43	11910.7	1424.08	9433.71
1379.25	13564.9	1401.91	11898.8	1424.57	10733.4
1379.73	13387.9	1402.39	11898.4	1425.05	10839.8
1380.22	13623.1	1402.87	11899.9	1425.53	10879.1
1380.7	13652.4	1403.35	11811.7	1426.01	10867.2
1381.18	13642.3	1403.84	11788.3	1426.49	10876.4
1381.66	13581.1	1404.32	11524	1426.98	10871.4
1382.14	13505.7	1404.8	10191	1427.46	10858.5
1382.63	13540.5	1405.28	10830	1427.94	10715.6
1383.11	13481.5	1405.76	11710.1	1428.42	10572.6
1383.59	13436	1406.25	11802	1428.9	10692.2
1384.07	13391.5	1406.73	11822.4	1429.39	10234

Filenam HMA0213  
Subfile: 0701

Type: 40 deg C BB

WN	INT
1429.87	8767.69
1430.35	10170
1430.83	10555.3
1431.31	10569.7
1431.8	10438.4
1432.28	10467.7
1432.76	10385.8
1433.24	9894.22
1433.72	10419
1434.21	10466.5
1434.69	10410.9
1435.17	10215.4
1435.65	9569.72
1436.13	8820.3
1436.62	6453.39
1437.1	7932.69
1437.58	9937.14
1438.06	10284.9
1438.54	10392.1
1439.03	10433.6
1439.51	10454.1
1439.99	10476.5
1440.47	10467.1
1440.95	10476.5
1441.44	10463.7
1441.92	10518
1442.4	10550
1442.88	10531.9
1443.37	10539.3
1443.85	10517.6
1444.33	10507.1
1444.81	10453.2
1445.29	10392.7
1445.78	10431.9
1446.26	10329
1446.74	10277.8
1447.22	10024.7
1447.7	8679.21
1448.19	8712.07
1448.67	9969.43
1449.15	10083.3
1449.63	10078.8
1450.11	10037.3

**Blackbody Response at 40°C and 80°C**  
**HMA0213**



Filenam HMA0213  
Subfile: 0601

Type: 80 deg C BB

WN	INT
750.173	56257
750.655	56552.3
751.137	56854.4
751.619	57114.2
752.101	57374.4
752.583	57637
753.066	57801.9
753.548	58075
754.03	58301.9
754.512	58426
754.994	58845.8
755.476	59114.8
755.958	59308
756.44	59616.8
756.922	59834.5
757.404	59948.3
757.886	60040.1
758.368	60325.8
758.85	60637
759.332	60703.7
759.814	60891.3
760.296	61199.6
760.778	61284.8
761.26	61401.9
761.743	61610.7
762.225	61798.6
762.707	62024
763.189	62182.8
763.671	62237.5
764.153	62334.3
764.635	62567.5
765.117	62710.3
765.599	62857.4
766.081	63095.8
766.563	63272.7
767.045	63414
767.527	63582
768.009	63723.9
768.491	63813.8
768.973	63960.6
769.455	64125.3
769.937	64244.9
770.42	64434.4
770.902	64687.5
771.384	64863.8
771.866	64979.2
772.348	65104

WN	INT
772.83	65222.8
773.312	65374.5
773.794	65590.9
774.276	65751.9
774.758	65850.6
775.24	66050.5
775.722	66210.4
776.204	66344.4
776.686	66547.8
777.168	66675.1
777.65	66911.3
778.132	66992.5
778.614	67113.8
779.097	67242.7
779.579	67366.9
780.061	67515.8
780.543	67670
781.025	67700.1
781.507	67845.8
781.989	68027.5
782.471	68063.9
782.953	68074.1
783.435	68077.3
783.917	68149.7
784.399	68079.2
784.881	68226.9
785.363	68294.6
785.845	68413.9
786.327	68352.9
786.809	68324
787.292	68318
787.774	68344
788.256	68317.8
788.738	68288.3
789.22	68276
789.702	68252.4
790.184	68148.9
790.666	68050.2
791.148	67980.1
791.63	67965.8
792.112	67902.7
792.594	67816.6
793.076	67697.7
793.558	67588.8
794.04	67450
794.522	67421.5
795.004	67342.2

WN	INT
795.486	67307.4
795.969	66999.9
796.451	67191.1
796.933	67113.9
797.415	67011.5
797.897	66966.8
798.379	66853.5
798.861	66676.9
799.343	66796.7
799.825	66778.1
800.307	66704.9
800.789	66677.4
801.271	66675.4
801.753	66692.9
802.235	66676.6
802.717	66847.5
803.199	66926.9
803.681	66963
804.163	67024.3
804.646	67067.2
805.128	67189
805.61	67372.1
806.092	67546.5
806.574	67666.7
807.056	67859
807.538	68010.9
808.02	68179.9
808.502	68428
808.984	68657.5
809.466	68911.9
809.948	69128.9
810.43	69350.9
810.912	69574.3
811.394	69771.2
811.876	70053.8
812.358	70317.5
812.84	70468.1
813.322	70616.3
813.805	70905.1
814.287	71188.5
814.769	71265
815.251	71406.6
815.733	71549.4
816.215	71688.9
816.697	71884.5
817.179	72069.3
817.661	72195.5

Filenam HMA0213  
Subfile: 0601

Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
818.143	72385.3	840.8	83957.6	863.456	87150.2
818.625	72536.2	841.282	84056.7	863.938	87189.9
819.107	72692.8	841.764	84170.7	864.42	87285.2
819.589	72878.8	842.246	84319.6	864.902	87440.8
820.071	72978.4	842.728	84493.5	865.384	87572.9
820.553	73118.2	843.21	84628.8	865.867	87611.9
821.035	73298.8	843.692	84750.8	866.349	87612.4
821.517	73499.7	844.174	84876.3	866.831	87635.8
822	73724.1	844.656	85005	867.313	87718.2
822.482	74028.7	845.138	85126.7	867.795	87758.7
822.964	74227.5	845.62	85200.8	868.277	87876.5
823.446	74502.6	846.102	85353.3	868.759	88013.1
823.928	74776.2	846.584	85475.2	869.241	88050.2
824.41	75047.8	847.066	85540.3	869.723	88053.8
824.892	75360.4	847.548	85638.2	870.205	88180.2
825.374	75698.9	848.03	85752.9	870.687	88273.5
825.856	75982.1	848.513	85914.7	871.169	88378.2
826.338	76372.9	848.995	86020.6	871.651	88459.5
826.82	76787	849.477	86062.8	872.133	88538.7
827.302	77082	849.959	86054.2	872.615	88659.3
827.784	77378.5	850.441	86104.1	873.097	88763.2
828.266	77737.6	850.923	86179.4	873.579	88762.1
828.748	78139.2	851.405	86234.8	874.061	88786.5
829.23	78460.9	851.887	86277.9	874.544	88879.3
829.712	78664.1	852.369	86300.5	875.026	88939.9
830.194	78901.1	852.851	86341.4	875.508	89038
830.677	79278.8	853.333	86404.2	875.99	89135.6
831.159	79583.5	853.815	86449.3	876.472	89239.8
831.641	79843.8	854.297	86442	876.954	89275.5
832.123	80088	854.779	86460.9	877.436	89350.4
832.605	80389.1	855.261	86468.2	877.918	89467.3
833.087	80613.9	855.743	86502.4	878.4	89640.9
833.569	80911.3	856.225	86526.2	878.882	89730.9
834.051	81201.2	856.707	86525.4	879.364	89814.5
834.533	81404.4	857.19	86531.9	879.846	89873.2
835.015	81685.7	857.672	86596	880.328	90001.2
835.497	81958.1	858.154	86652.9	880.81	90190.5
835.979	82120.7	858.636	86731.9	881.292	90361.1
836.461	82274.8	859.118	86745.7	881.774	90414.7
836.943	82428.7	859.6	86864.8	882.256	90465
837.425	82600.8	860.082	86861.3	882.738	90617.8
837.907	82803.1	860.564	86837.5	883.221	90750.1
838.389	82952.9	861.046	86898	883.703	90846.1
838.871	83161.4	861.528	86958.3	884.185	90899.4
839.353	83436.7	862.01	87014.9	884.667	90917.8
839.836	83609.1	862.492	87110.5	885.149	90998.6
840.318	83802.3	862.974	87174.1	885.631	91123.1



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Type: 80 deg C BB

WN	INT
886.113	91261.2
886.595	91359.7
887.077	91421.5
887.559	91381.8
888.041	91501
888.523	91611.9
889.005	91604.4
889.487	91673.6
889.969	91733.6
890.451	91757
890.933	91832.3
891.415	92017.4
891.898	92122.1
892.38	92098.2
892.862	92123
893.344	92171.8
893.826	92185.8
894.308	92340.4
894.79	92483
895.272	92508.6
895.754	92455.2
896.236	92456.9
896.718	92527.7
897.2	92590.1
897.682	92702.9
898.164	92755.3
898.646	92798.9
899.128	92776.8
899.61	92863.7
900.092	92887.8
900.575	92860
901.057	92909.1
901.539	92913.5
902.021	92925.3
902.503	92956.3
902.985	92977.6
903.467	93104.4
903.949	93190.9
904.431	93139.3
904.913	93197.3
905.395	93192
905.877	93214.5
906.359	93299.6
906.841	93325.9
907.323	93348
907.805	93404.3
908.287	93332.3

WN	INT
908.769	93395.7
909.252	93458.7
909.734	93439.6
910.216	93448.5
910.698	93442.7
911.18	93397.2
911.662	93359.4
912.144	93371.3
912.626	93348.5
913.108	93327.6
913.59	93418.7
914.072	93535.7
914.554	93471.2
915.036	93447.9
915.518	93437.9
916	93490.4
916.482	93470.7
916.964	93431.8
917.446	93433.1
917.929	93439.9
918.411	93487.5
918.893	93485.3
919.375	93478
919.857	93391.7
920.339	93331
920.821	93328.8
921.303	93333.3
921.785	93346
922.267	93311.7
922.749	93252.6
923.231	93229.3
923.713	93242
924.195	93260.2
924.677	93308.7
925.159	93356.1
925.641	93270.5
926.124	93191
926.606	93225.6
927.088	93256.5
927.57	93216.5
928.052	93185.4
928.534	93165.9
929.016	93191.4
929.498	93233.1
929.98	93246.9
930.462	93173.5
930.944	93172.9

WN	INT
931.426	93183.7
931.908	93275
932.39	93253
932.872	93205.7
933.354	93211.4
933.836	93159.9
934.318	93154.2
934.801	93235.8
935.283	93210.6
935.765	93212.4
936.247	93245
936.729	93175.8
937.211	93145.2
937.693	93210.7
938.175	93157.9
938.657	93201.5
939.139	93220.2
939.621	93171
940.103	93128.2
940.585	93061.9
941.067	93010.1
941.549	93010.9
942.031	92974.2
942.513	92961.6
942.995	92906.6
943.478	92896.9
943.96	92872.4
944.442	92815
944.924	92843
945.406	92843.9
945.888	92800.4
946.37	92742.9
946.852	92732.2
947.334	92649.4
947.816	92679.9
948.298	92726.3
948.78	92642.8
949.262	92641.8
949.744	92639.1
950.226	92583.2
950.708	92519.1
951.19	92539.7
951.672	92527.7
952.155	92515.6
952.637	92492.1
953.119	92438.5
953.601	92370.4

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WN	INT	WN	INT	WN	INT
954.083	92270.3	976.739	89476.1	999.396	83944.9
954.565	92203.7	977.221	89337.7	999.878	83746.1
955.047	92219.9	977.703	89214.2	1000.36	83580
955.529	92222.2	978.186	89176.6	1000.84	83342.1
956.011	92153.2	978.668	89004.5	1001.32	83076.5
956.493	92165.2	979.15	88861.1	1001.8	82930.7
956.975	92106.3	979.632	88825.4	1002.28	82776.4
957.457	92052.4	980.114	88673.8	1002.77	82511.7
957.939	92017.9	980.596	88571.9	1003.25	82232.7
958.421	91938.9	981.078	88499.6	1003.73	82014.8
958.903	91835	981.56	88412.5	1004.21	81673.6
959.385	91759.5	982.042	88319.8	1004.69	81418.7
959.867	91708.7	982.524	88182.9	1005.18	81161.1
960.349	91673.2	983.006	88143.9	1005.66	80898.4
960.832	91549.3	983.488	88084.8	1006.14	80698.6
961.314	91480.8	983.97	87993.6	1006.62	80364.3
961.796	91517.5	984.452	87891	1007.1	80008.2
962.278	91470	984.934	87767.1	1007.59	79684.7
962.76	91382.3	985.416	87667.2	1008.07	79368.2
963.242	91259.8	985.898	87577.2	1008.55	79028.6
963.724	91210	986.38	87467.7	1009.03	78737
964.206	91191.3	986.863	87408.3	1009.51	78451.7
964.688	91193	987.345	87366.2	1010	78143.4
965.17	91076	987.827	87269.9	1010.48	77775.4
965.652	90973.2	988.309	87128.7	1010.96	77447.6
966.134	90991	988.791	87015.2	1011.44	77125.3
966.616	90956.8	989.273	86913.4	1011.92	76843.4
967.098	90894.9	989.755	86769.5	1012.41	76524.3
967.58	90836.1	990.237	86642.1	1012.89	76195.2
968.062	90833.8	990.719	86533.9	1013.37	75892.3
968.544	90707.3	991.201	86426.7	1013.85	75608.4
969.026	90704	991.683	86279.6	1014.34	75402.9
969.509	90622	992.165	86158.5	1014.82	75136.9
969.991	90502.7	992.647	86044	1015.3	74885.1
970.473	90488.5	993.129	85945.4	1015.78	74610.8
970.955	90434.5	993.611	85753.9	1016.26	74332.3
971.437	90353.3	994.093	85596.8	1016.75	74088.5
971.919	90225.3	994.575	85495.7	1017.23	73842.4
972.401	90089.5	995.057	85367.6	1017.71	73662.1
972.883	90037	995.54	85252.1	1018.19	73475
973.365	90037.1	996.022	85087	1018.67	73369.1
973.847	89916.2	996.504	84978.2	1019.16	73275.9
974.329	89807.7	996.986	84872.5	1019.64	73067.3
974.811	89825.7	997.468	84721.9	1020.12	72852.1
975.293	89753	997.95	84510.4	1020.6	72665.8
975.775	89633.9	998.432	84319.8	1021.08	72510.9
976.257	89565.4	998.914	84181.8	1021.57	72327.5

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Type: 80 deg C BB

WN	INT
1022.05	72223.1
1022.53	72109.1
1023.01	71894
1023.49	71810.7
1023.98	71786.1
1024.46	71680.6
1024.94	71520.8
1025.42	71434.5
1025.91	71332.3
1026.39	71202.3
1026.87	71211.4
1027.35	71122.7
1027.83	70979.9
1028.32	71008.7
1028.8	70910.6
1029.28	70830.7
1029.76	70783.3
1030.24	70714.8
1030.73	70723.1
1031.21	70677.9
1031.69	70611
1032.17	70488.1
1032.65	70492.5
1033.14	70419.6
1033.62	70268.2
1034.1	70222.7
1034.58	70172.1
1035.06	70179.6
1035.55	70146.4
1036.03	69994.6
1036.51	69890.1
1036.99	69831.8
1037.47	69766.3
1037.96	69640.5
1038.44	69542.3
1038.92	69477
1039.4	69386.6
1039.88	69281.4
1040.37	69145.7
1040.85	69032.9
1041.33	68957.6
1041.81	68909.1
1042.29	68817.7
1042.78	68669.4
1043.26	68626.9
1043.74	68611.2
1044.22	68482.9

WN	INT
1044.71	68414.3
1045.19	68461.5
1045.67	68357.8
1046.15	68311.7
1046.63	68268.8
1047.12	68169.7
1047.6	68097.6
1048.08	67981.3
1048.56	67938.1
1049.04	67880.6
1049.53	67808.4
1050.01	67791.1
1050.49	67787.8
1050.97	67683.9
1051.45	67626.9
1051.94	67602.8
1052.42	67593.9
1052.9	67545.9
1053.38	67520.5
1053.86	67492.4
1054.35	67343.2
1054.83	67271.1
1055.31	67202.3
1055.79	67131.5
1056.27	67059.6
1056.76	66961.1
1057.24	66946.3
1057.72	66836.8
1058.2	66722.7
1058.68	66657.3
1059.17	66558.6
1059.65	66466.3
1060.13	66383.8
1060.61	66171.9
1061.1	66072.5
1061.58	66057.6
1062.06	66025.4
1062.54	65869
1063.02	65667.1
1063.51	65581.7
1063.99	65459.7
1064.47	65353.5
1064.95	65259.8
1065.43	65096.9
1065.92	64899.5
1066.4	64827.8
1066.88	64750.8

WN	INT
1067.36	64615.9
1067.84	64466.5
1068.33	64258
1068.81	64121.3
1069.29	64036.7
1069.77	63882.6
1070.25	63754.2
1070.74	63566.1
1071.22	63430.3
1071.7	63338
1072.18	63182.1
1072.66	63040.1
1073.15	62929
1073.63	62740.4
1074.11	62605.7
1074.59	62522.5
1075.07	62377.1
1075.56	62246.7
1076.04	62188.3
1076.52	62023.1
1077	61831.1
1077.48	61647.1
1077.97	61460.6
1078.45	61322.3
1078.93	61169.6
1079.41	60970.9
1079.9	60784.3
1080.38	60663.4
1080.86	60547.9
1081.34	60372.8
1081.82	60179.4
1082.31	60022.8
1082.79	59896.7
1083.27	59740
1083.75	59583.5
1084.23	59438
1084.72	59303.6
1085.2	59110.5
1085.68	58957.9
1086.16	58828.2
1086.64	58710
1087.13	58539.5
1087.61	58373.7
1088.09	58219.5
1088.57	58117.5
1089.05	58073.5
1089.54	57929.7

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Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
1090.02	57731.2	1112.68	54664.6	1135.33	55696.2
1090.5	57638.6	1113.16	54650.7	1135.81	55493.2
1090.98	57518.9	1113.64	54628.2	1136.3	55786
1091.46	57372.5	1114.12	54670.2	1136.78	55815.1
1091.95	57219.9	1114.6	54704.9	1137.26	55799.2
1092.43	57058.8	1115.09	54689.9	1137.74	55821.1
1092.91	56917.6	1115.57	54669.2	1138.22	55801.2
1093.39	56750.9	1116.05	54600	1138.71	55816.1
1093.87	56653.3	1116.53	54582.5	1139.19	55941
1094.36	56601.2	1117.01	54661.9	1139.67	55985
1094.84	56449.2	1117.5	54665.7	1140.15	55921.4
1095.32	56287.6	1117.98	54614.1	1140.63	55899.3
1095.8	56216.7	1118.46	54622.9	1141.12	55928.4
1096.29	56110.7	1118.94	54617.8	1141.6	55898.1
1096.77	55959.6	1119.42	54633	1142.08	55855.5
1097.25	55904	1119.91	54633.8	1142.56	55865.1
1097.73	55832.2	1120.39	54650.6	1143.04	55839.4
1098.21	55724.3	1120.87	54687.1	1143.53	55810.1
1098.7	55642.7	1121.35	54659.1	1144.01	55781.1
1099.18	55547.9	1121.83	54695.2	1144.49	55750.1
1099.66	55503.8	1122.32	54732.6	1144.97	55761.6
1100.14	55448.1	1122.8	54789.7	1145.45	55721.3
1100.62	55388	1123.28	54768.7	1145.94	55715.7
1101.11	55422.7	1123.76	54789.7	1146.42	55676.8
1101.59	55410.1	1124.24	54899.9	1146.9	55631.1
1102.07	55285.7	1124.73	54904.8	1147.38	55609.7
1102.55	55218.1	1125.21	54930.2	1147.87	55570
1103.03	55197.4	1125.69	55009.3	1148.35	55553.3
1103.52	55062.5	1126.17	55047.4	1148.83	55528.2
1104	55024.4	1126.65	55108.3	1149.31	55425.2
1104.48	55018.3	1127.14	55111	1149.79	55401.8
1104.96	54956.2	1127.62	55121.2	1150.28	55451.8
1105.44	54922.5	1128.1	55178	1150.76	55476.4
1105.93	54919.6	1128.58	55220.1	1151.24	55448.1
1106.41	54880.3	1129.06	55254.2	1151.72	55350.1
1106.89	54776	1129.55	55302.4	1152.2	55223.1
1107.37	54770.8	1130.03	55348.6	1152.69	55173.8
1107.85	54807.9	1130.51	55392.7	1153.17	55145
1108.34	54801.6	1130.99	55437.2	1153.65	55148.2
1108.82	54803.9	1131.48	55487.4	1154.13	55068.4
1109.3	54772.7	1131.96	55559	1154.61	54936.3
1109.78	54776.4	1132.44	55567.6	1155.1	54912.8
1110.26	54795.4	1132.92	55555.6	1155.58	54816.4
1110.75	54812.3	1133.4	55636.1	1156.06	54724
1111.23	54877.8	1133.89	55670.5	1156.54	54670.6
1111.71	54853.7	1134.37	55678.4	1157.02	54614.7
1112.19	54739.1	1134.85	55694.8	1157.51	54669.7

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Type: 80 deg C BB

WN	INT
1157.99	54596.5
1158.47	54490.2
1158.95	54379.4
1159.43	54343.1
1159.92	54337.2
1160.4	54331
1160.88	54232
1161.36	54147.1
1161.84	54045
1162.33	53878.9
1162.81	53784.2
1163.29	53739.2
1163.77	53646.2
1164.26	53543.5
1164.74	53476.5
1165.22	53390.1
1165.7	53324.3
1166.18	53259.3
1166.67	53180.4
1167.15	53113.4
1167.63	53031.1
1168.11	52976.8
1168.59	52875.6
1169.08	52763.6
1169.56	52738.5
1170.04	52658.2
1170.52	52535.6
1171	52481.4
1171.49	52414.9
1171.97	52311.3
1172.45	52231.7
1172.93	52157.4
1173.41	52089.9
1173.9	52047.4
1174.38	51645.5
1174.86	51899.3
1175.34	51838
1175.82	51747.5
1176.31	51659.7
1176.79	51534.4
1177.27	51469.6
1177.75	51389.6
1178.23	51308.9
1178.72	51247.5
1179.2	51178.3
1179.68	51074.1
1180.16	51028.8

WN	INT
1180.64	50966.2
1181.13	50889.6
1181.61	50806.3
1182.09	50754.3
1182.57	50693.3
1183.06	50646.8
1183.54	50583.5
1184.02	50515.6
1184.5	50447.3
1184.98	50345.3
1185.47	50329.8
1185.95	50291.6
1186.43	50164.7
1186.91	49726.2
1187.39	50067.8
1187.88	50034.2
1188.36	49972
1188.84	49915.7
1189.32	49859.2
1189.8	49845.3
1190.29	49759.4
1190.77	49686.3
1191.25	49641.3
1191.73	49561.1
1192.21	49503.3
1192.7	49486.6
1193.18	49460.8
1193.66	49364.2
1194.14	49315.7
1194.62	49250.4
1195.11	49143.5
1195.59	49093.5
1196.07	49032.7
1196.55	48973.5
1197.03	48900.2
1197.52	48840.2
1198	48672
1198.48	48647.8
1198.96	48723.6
1199.45	48688.3
1199.93	48569.6
1200.41	48472.9
1200.89	48375.2
1201.37	48373.7
1201.86	48399.4
1202.34	48262.4
1202.82	48164.3

WN	INT
1203.3	48100.1
1203.78	48003.4
1204.27	47929.5
1204.75	47859.7
1205.23	47778
1205.71	47678.2
1206.19	47623.9
1206.68	47521.6
1207.16	47428.9
1207.64	47349.8
1208.12	47290.1
1208.6	47235.1
1209.09	47154.5
1209.57	47082.4
1210.05	46984.3
1210.53	46917.9
1211.01	46788.7
1211.5	46730.6
1211.98	46547.9
1212.46	46406.9
1212.94	46526.6
1213.42	46477.5
1213.91	46426.3
1214.39	46304.7
1214.87	46235.4
1215.35	46200
1215.83	46138
1216.32	46069.7
1216.8	45976.2
1217.28	45906.9
1217.76	45872.8
1218.25	45724
1218.73	45631.2
1219.21	45626.8
1219.69	45565.5
1220.17	45476
1220.66	45404.7
1221.14	45306.7
1221.62	45248.2
1222.1	45203.6
1222.58	45202
1223.07	45194.1
1223.55	45085
1224.03	45026.6
1224.51	44847.9
1224.99	44273.9
1225.48	44554.9

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Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
1225.96	44565.6	1248.61	40278.7	1271.27	36544.2
1226.44	44502.6	1249.1	40151.6	1271.75	35167.2
1226.92	44519.1	1249.58	39973.6	1272.24	36816.5
1227.4	44471.7	1250.06	39869.9	1272.72	36927.5
1227.89	44326.1	1250.54	39737.1	1273.2	36914.4
1228.37	44198.9	1251.02	39541.7	1273.68	36881.8
1228.85	44137.9	1251.51	39378.7	1274.16	36883.4
1229.33	44025.5	1251.99	39182.1	1274.65	36862.8
1229.81	43936.2	1252.47	38983.5	1275.13	36827.2
1230.3	43882.6	1252.95	38774.5	1275.61	36849.7
1230.78	43789.6	1253.44	38502.9	1276.09	36863.3
1231.26	43673.8	1253.92	38262.4	1276.57	36754
1231.74	43588.8	1254.4	38016.5	1277.06	36693.1
1232.22	43545.3	1254.88	37713.9	1277.54	36606.5
1232.71	43471.4	1255.36	37430	1278.02	36554.9
1233.19	43384.8	1255.85	37122.2	1278.5	36501.1
1233.67	43304.6	1256.33	36801.4	1278.98	36428.5
1234.15	43211.2	1256.81	36483.2	1279.47	36361.4
1234.64	43104.7	1257.29	36170.9	1279.95	36048.6
1235.12	43008.1	1257.77	35852.3	1280.43	36220.9
1235.6	42908.9	1258.26	35543.2	1280.91	36182.3
1236.08	42853.2	1258.74	35191.2	1281.39	36119.2
1236.56	42761.2	1259.22	35026	1281.88	36082.5
1237.05	42679.1	1259.7	34726	1282.36	36004.3
1237.53	42597.4	1260.18	33585.1	1282.84	35933.4
1238.01	42509.6	1260.67	34082.5	1283.32	35895.8
1238.49	42417.8	1261.15	34309.5	1283.8	35805
1238.97	42298.8	1261.63	34277.2	1284.29	35627.4
1239.46	42286.8	1262.11	34283.3	1284.77	35664.8
1239.94	42213.5	1262.59	34329.8	1285.25	35604.1
1240.42	42067.7	1263.08	34358.8	1285.73	35521.1
1240.9	41994.2	1263.56	34458	1286.22	35448.8
1241.38	41903.5	1264.04	34581.3	1286.7	35372
1241.87	41791.2	1264.52	34817.1	1287.18	34693.6
1242.35	41673.6	1265	34978.8	1287.66	34724.2
1242.83	41536.2	1265.49	35104.1	1288.14	34465
1243.31	41486.7	1265.97	35182	1288.63	34926.2
1243.79	41207	1266.45	35452.8	1289.11	34923.8
1244.28	40857.8	1266.93	35718.3	1289.59	34986
1244.76	41162.5	1267.41	35903.2	1290.07	34843.5
1245.24	41079.2	1267.9	35981.9	1290.55	34299.5
1245.72	40947.3	1268.38	35832.1	1291.04	34842.4
1246.2	40861.1	1268.86	36498.6	1291.52	34757.8
1246.69	40769.8	1269.34	36490.9	1292	34713.6
1247.17	40659.5	1269.83	35852.9	1292.48	34643.8
1247.65	40519.5	1270.31	36527.4	1292.96	34600.7
1248.13	40364	1270.79	36747.9	1293.45	34541.6

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Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
1293.93	34479.4	1316.58	30102.2	1339.24	23792
1294.41	34406.9	1317.07	28445.7	1339.72	24930.9
1294.89	34373.9	1317.55	30483.5	1340.21	22098
1295.37	34291.4	1318.03	30560.1	1340.69	24054.3
1295.86	34207.6	1318.51	29410.6	1341.17	26730.4
1296.34	33851.1	1318.99	26928	1341.65	26916.1
1296.82	33719.4	1319.48	30140	1342.13	26968.1
1297.3	33958.4	1319.96	29390.1	1342.62	26950.4
1297.78	33953.1	1320.44	30139.2	1343.1	26952.9
1298.27	33903.8	1320.92	29746.9	1343.58	26901.6
1298.75	33823.9	1321.41	30416.8	1344.06	26803.8
1299.23	33769.5	1321.89	30390.8	1344.54	26877.3
1299.71	33705.1	1322.37	30397.1	1345.03	26822
1300.19	33634.7	1322.85	30285.8	1345.51	26752
1300.68	33542.9	1323.33	29958.6	1345.99	26704.9
1301.16	33466.1	1323.82	30315.5	1346.47	26687.3
1301.64	33385.9	1324.3	30306.5	1346.95	26606.6
1302.12	33319.6	1324.78	30282.3	1347.44	26567.8
1302.6	33274.4	1325.26	30262.1	1347.92	26515.6
1303.09	33202.8	1325.74	30193.3	1348.4	26402.8
1303.57	33107.7	1326.23	30116.3	1348.88	25999.8
1304.05	33038.6	1326.71	30133	1349.36	24980.1
1304.53	32945.6	1327.19	30069	1349.85	26173.8
1305.02	32861.7	1327.67	29949.6	1350.33	26184.3
1305.5	32645.8	1328.15	29947.7	1350.81	26130.2
1305.98	32656.6	1328.64	29924.6	1351.29	26044.8
1306.46	32602.7	1329.12	29827.3	1351.77	25966.2
1306.94	32531.6	1329.6	29565.9	1352.26	25830.2
1307.43	32473.3	1330.08	29356.4	1352.74	25802.9
1307.91	31889.8	1330.56	29520.9	1353.22	25695.6
1308.39	31657.2	1331.05	29406.3	1353.7	25596.5
1308.87	32125.9	1331.53	29270	1354.18	25361.1
1309.35	32081.3	1332.01	29158.8	1354.67	23840.7
1309.84	31992.6	1332.49	28984.7	1355.15	24443.5
1310.32	31907.9	1332.97	28890.6	1355.63	25014.2
1310.8	31838	1333.46	28756.3	1356.11	24970.7
1311.28	31794.4	1333.94	28618.1	1356.6	24835.5
1311.76	31705.6	1334.42	28481.9	1357.08	24700.9
1312.25	30435.4	1334.9	28353.7	1357.56	24479.7
1312.73	29980.9	1335.38	28169.3	1358.04	23570.6
1313.21	30594.9	1335.87	28057.2	1358.52	24381.8
1313.69	29929.8	1336.35	26442	1359.01	24248.7
1314.17	31003.7	1336.83	24688.2	1359.49	24152.1
1314.66	29938.5	1337.31	27419.6	1359.97	24026.7
1315.14	31094.8	1337.8	27077.1	1360.45	23545.1
1315.62	31023.9	1338.28	25078.7	1360.93	20007.2
1316.1	30852.6	1338.76	23901.9	1361.42	22353.8

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Type: 80 deg C BB

WN	INT	WN	INT	WN	INT
1361.9	23166	1384.55	21634.5	1407.21	19253.6
1362.38	21335.7	1385.04	21488.1	1407.69	19305
1362.86	18604.7	1385.52	21320.8	1408.18	19222.8
1363.34	17498.5	1386	20530.4	1408.66	19165.4
1363.83	22924.5	1386.48	18301.1	1409.14	19225.1
1364.31	23342.4	1386.96	19077.1	1409.62	18741.6
1364.79	23418	1387.45	14216.7	1410.1	18173.2
1365.27	23449.3	1387.93	18654.4	1410.59	18948.5
1365.75	23392	1388.41	20330.8	1411.07	18613.9
1366.24	23335.8	1388.89	20611.5	1411.55	17493.9
1366.72	23304.2	1389.37	20598.6	1412.03	17737.5
1367.2	23236.8	1389.86	20469.6	1412.51	18641.4
1367.68	23099.9	1390.34	20240.9	1413	18559.8
1368.16	22123.8	1390.82	19847.3	1413.48	18448
1368.65	19429.4	1391.3	20030.1	1413.96	18317.9
1369.13	22819.5	1391.79	20084.7	1414.44	18144.1
1369.61	22843.3	1392.27	19915.6	1414.92	17933.5
1370.09	22820.8	1392.75	19778	1415.41	17870.1
1370.57	22841.2	1393.23	19484.1	1415.89	16374.5
1371.06	22731.7	1393.71	18508.5	1416.37	16642.9
1371.54	22718.4	1394.2	14396.7	1416.85	16485.8
1372.02	22299.2	1394.68	13661.1	1417.33	13086.5
1372.5	22175.8	1395.16	17705.2	1417.82	15749.5
1372.99	22023	1395.64	15324	1418.3	15740.3
1373.47	18819.7	1396.12	17221.9	1418.78	12179.2
1373.95	17301.6	1396.61	18829.6	1419.26	9427.5
1374.43	21045	1397.09	18808.8	1419.74	11366.2
1374.91	18342.7	1397.57	16500.8	1420.23	15533.5
1375.4	20152.5	1398.05	17607.9	1420.71	16568.9
1375.88	21882.3	1398.53	17377.3	1421.19	16908.6
1376.36	22111	1399.02	13187.2	1421.67	17055.3
1376.84	22145.2	1399.5	15202.1	1422.15	17091.8
1377.32	22143.1	1399.98	18339.5	1422.64	16978.3
1377.81	21004.7	1400.46	18831.2	1423.12	16238.9
1378.29	21337.9	1400.94	18994.8	1423.6	13249
1378.77	21943.3	1401.43	19082	1424.08	13427.6
1379.25	21599.7	1401.91	19101.8	1424.57	16996.8
1379.73	21050	1402.39	19086	1425.05	17432
1380.22	21898.3	1402.87	19066.5	1425.53	17522.9
1380.7	22063.1	1403.35	18938	1426.01	17543.1
1381.18	22056.6	1403.84	18900	1426.49	17536.8
1381.66	21931.6	1404.32	18125.1	1426.98	17579.5
1382.14	21780	1404.8	14597.6	1427.46	17540.6
1382.63	21924.1	1405.28	16327.4	1427.94	17135.3
1383.11	21845.9	1405.76	18847.8	1428.42	16712.1
1383.59	21785	1406.25	19170.1	1428.9	17203.3
1384.07	21743.5	1406.73	19244.9	1429.39	15901



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Type: 80 deg C BB

WN	INT
1429.87	12234.6
1430.35	15518
1430.83	16862.6
1431.31	17068.9
1431.8	16568.1
1432.28	16737
1432.76	16503.9
1433.24	15005.2
1433.72	16605.8
1434.21	16788.2
1434.69	16611.9
1435.17	15948.7
1435.65	14084.2
1436.13	12587.2
1436.62	8770.15
1437.1	11260.2
1437.58	15368.1
1438.06	16383.7
1438.54	16706.5
1439.03	16867.3
1439.51	16941.5
1439.99	17000.5
1440.47	17033
1440.95	17064.9
1441.44	17030.1
1441.92	17200.9
1442.4	17204.7
1442.88	17183.1
1443.37	17237.8
1443.85	17242.2
1444.33	17240.7
1444.81	17051.3
1445.29	16899.8
1445.78	17035.6
1446.26	16673.8
1446.74	16528.3
1447.22	15788.7
1447.7	12368.3
1448.19	12666.3
1448.67	15853.6
1449.15	16246.1
1449.63	16237.4
1450.11	16169.1

Filenam HMA0213  
Subfile: 0801

Type: OFF STACK

WN	INT	WN	INT	WN	INT
750.173	33661.6	772.83	30977.5	795.486	36792.5
750.655	32204.7	773.312	29652.1	795.969	38125.6
751.137	34372.8	773.794	30067.2	796.451	35968.6
751.619	34165.7	774.276	32502.8	796.933	34684.8
752.101	34024.7	774.758	30763.1	797.415	36330.2
752.583	34500.4	775.24	34602.2	797.897	35860.4
753.066	34632.5	775.722	36605.7	798.379	37762.9
753.548	33679.7	776.204	33026.1	798.861	37795.7
754.03	35281.6	776.686	35930.7	799.343	35228.8
754.512	35550.7	777.168	36860.3	799.825	32246.5
754.994	34694.7	777.65	32577.9	800.307	30888.4
755.476	33728.4	778.132	31057.7	800.789	29545.1
755.958	35350.2	778.614	31581.6	801.271	29413.1
756.44	32384.7	779.097	35534.7	801.753	30622
756.922	33293.8	779.579	34435.6	802.235	29356.3
757.404	34836.9	780.061	30655.3	802.717	32199
757.886	31041.5	780.543	31442.9	803.199	35719.8
758.368	30985.2	781.025	29749.5	803.681	35770.3
758.85	34593.4	781.507	29664.8	804.163	30133.3
759.332	30751.3	781.989	30765.3	804.646	30203.5
759.814	30218	782.471	29559.7	805.128	27442.9
760.296	34360.2	782.953	30255.3	805.61	27364
760.778	31600	783.435	31664.7	806.092	31826.2
761.26	29713.7	783.917	34752.4	806.574	29054.6
761.743	33744.1	784.399	37226.4	807.056	27229.1
762.225	29935.4	784.881	35861	807.538	28159.6
762.707	29133.1	785.363	32576.3	808.02	34481.4
763.189	32585.2	785.845	30245.5	808.502	32852.6
763.671	29897.5	786.327	29300	808.984	28073.1
764.153	28754.1	786.809	30087.7	809.466	29319
764.635	31800.8	787.292	28699.3	809.948	26925.9
765.117	30602.1	787.774	29267.2	810.43	26970.6
765.599	28678.4	788.256	28993.3	810.912	29083.6
766.081	31480.9	788.738	28313.4	811.394	26738.2
766.563	31352.1	789.22	28423.2	811.876	26860.5
767.045	30004	789.702	28821	812.358	28253
767.527	32811.7	790.184	28805.5	812.84	27162.8
768.009	31967.7	790.666	29041.2	813.322	28181
768.491	30593.9	791.148	30578.8	813.805	34962.1
768.973	35481.1	791.63	36838.2	814.287	33574.3
769.455	32891.2	792.112	35874.1	814.769	32857
769.937	34362.5	792.594	33247.8	815.251	28107.4
770.42	32950.4	793.076	32294.7	815.733	28607.5
770.902	31105.4	793.558	34696.7	816.215	26985.2
771.384	30693.7	794.04	37442.9	816.697	27091.3
771.866	30202	794.522	33148.3	817.179	27961.1
772.348	30022.1	795.004	33312	817.661	26251

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Type: OFF STACK

WN	INT
818.143	26260.5
818.625	27029.6
819.107	26051
819.589	26121.5
820.071	26476.5
820.553	26343.7
821.035	26229.1
821.517	26347.7
822	26938.1
822.482	26616.9
822.964	26669.1
823.446	27291
823.928	26735.4
824.41	27236.7
824.892	30229.4
825.374	32308.4
825.856	27738
826.338	27849.2
826.82	28980.4
827.302	33114.6
827.784	37526.5
828.266	30563.9
828.748	28502.7
829.23	28039.8
829.712	28081.8
830.194	27775.9
830.677	28176.1
831.159	27886.9
831.641	27714.6
832.123	27686.5
832.605	28029.6
833.087	27975.4
833.569	27962.3
834.051	28189.3
834.533	28379.6
835.015	28742.9
835.497	33361.3
835.979	28645.6
836.461	28568
836.943	28719.9
837.425	28901.2
837.907	29548.6
838.389	29444.4
838.871	29764.3
839.353	31286.5
839.836	40164.7
840.318	36945.9

WN	INT
840.8	30757.4
841.282	30979.8
841.764	33402.7
842.246	31486.1
842.728	30436.2
843.21	30301.2
843.692	30351.5
844.174	30574.5
844.656	30593.7
845.138	30801.8
845.62	31357.4
846.102	31036.5
846.584	31214.8
847.066	31389.1
847.548	31706.4
848.03	31795.6
848.513	32247.4
848.995	34045.4
849.477	41746.3
849.959	36861.3
850.441	33558.2
850.923	33488.7
851.405	34087.5
851.887	36518.2
852.369	43890.4
852.851	43763.1
853.333	39545.3
853.815	34915
854.297	38790.5
854.779	42193.1
855.261	34200.7
855.743	32467.9
856.225	31637.3
856.707	31165.7
857.19	30771.5
857.672	30477.4
858.154	30284.6
858.636	34279.2
859.118	30208.4
859.6	31716.1
860.082	29636.1
860.564	29444.5
861.046	29332.5
861.528	29260.8
862.01	29282.3
862.492	29439.2
862.974	29307.8

WN	INT
863.456	29398.8
863.938	29728.7
864.42	30328.5
864.902	36219.8
865.384	38512
865.867	31267.9
866.349	29963.5
866.831	29728.4
867.313	29847.9
867.795	30052.9
868.277	29953.2
868.759	29939.1
869.241	29926.2
869.723	30069.1
870.205	30154.3
870.687	31706
871.169	40356.5
871.651	34396.3
872.133	30915.7
872.615	30365.3
873.097	29948.3
873.579	30021.1
874.061	29895.3
874.544	29824.5
875.026	29876.9
875.508	30084.8
875.99	30524.2
876.472	30113.7
876.954	30132.6
877.436	30293.5
877.918	31353.2
878.4	38303.7
878.882	34683.7
879.364	31071.9
879.846	30670
880.328	30703.2
880.81	31956.5
881.292	34126.3
881.774	31251.3
882.256	31217.1
882.738	31682.6
883.221	35788.3
883.703	38346.1
884.185	34626
884.667	31931.7
885.149	31515.5
885.631	31540.2

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
886.113	31708.4	908.769	40147.2	931.426	29971.6
886.595	32908	909.252	38896.4	931.908	30020.6
887.077	40756.2	909.734	32824.4	932.39	29932.1
887.559	37122.8	910.216	34277.1	932.872	31326.5
888.041	33233	910.698	32499.3	933.354	29178.5
888.523	37672.6	911.18	30995.8	933.836	29099.5
889.005	32518.7	911.662	30820.9	934.318	29056.1
889.487	31469.1	912.144	31030	934.801	31263.7
889.969	34182.9	912.626	30625.1	935.283	29150.2
890.451	31372.8	913.108	30645.4	935.765	28777.1
890.933	31177.1	913.59	30782.6	936.247	29016.8
891.415	35781.4	914.072	35525.1	936.729	31617.6
891.898	30919	914.554	31050.9	937.211	29270
892.38	30642.3	915.036	30919.9	937.693	28651.2
892.862	30232.4	915.518	30806.2	938.175	29081.7
893.344	30218.8	916	30641	938.657	32274.4
893.826	29956.7	916.482	31029	939.139	28586.3
894.308	29880.9	916.964	30556.7	939.621	28649.7
894.79	29753.8	917.446	30775.9	940.103	28886
895.272	29752.8	917.929	30884.4	940.585	33202.6
895.754	29772.4	918.411	35630.6	941.067	33165.3
896.236	29979.4	918.893	30949.6	941.549	28850.9
896.718	30090.6	919.375	30794.9	942.031	29158.1
897.2	29506.5	919.857	31053.6	942.513	32384.1
897.682	32528.2	920.339	30785.3	942.995	28895.1
898.164	29431.2	920.821	32043.5	943.478	28961.8
898.646	29306.2	921.303	35137.5	943.96	30805.2
899.128	29181.4	921.785	34927.5	944.442	31828.7
899.61	29156.6	922.267	41267.1	944.924	33474.7
900.092	29218.5	922.749	33126.4	945.406	29410.2
900.575	29383.2	923.231	32378.7	945.888	33057.8
901.057	29396.7	923.713	30976.4	946.37	29515.3
901.539	29277.6	924.195	31196.1	946.852	30469.9
902.021	29507.2	924.677	33832.4	947.334	30047.2
902.503	29961.1	925.159	39181.3	947.816	36159.8
902.985	29881	925.641	32723.6	948.298	41785
903.467	29788.8	926.124	31194.4	948.78	31699.2
903.949	30038.4	926.606	30744.9	949.262	31894.9
904.431	30110.7	927.088	32131.7	949.744	31316.1
904.913	30246.9	927.57	30787.5	950.226	29521.3
905.395	31566	928.052	30448	950.708	29497.3
905.877	30832.8	928.534	31279.7	951.19	33931.1
906.359	37241.7	929.016	34027	951.672	29264.9
906.841	33185.1	929.498	30114.6	952.155	28947.1
907.323	30994.9	929.98	30401.2	952.637	30359.5
907.805	31729.7	930.462	30144.7	953.119	33175.3
908.287	33037.5	930.944	31995	953.601	32778.1

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WN	INT
954.083	30495.9
954.565	32929.2
955.047	31763.1
955.529	33403.9
956.011	30948.4
956.493	28975.8
956.975	27956.4
957.457	27968.1
957.939	29706.3
958.421	27459.7
958.903	28178.7
959.385	31175.5
959.867	29539.4
960.349	27698.1
960.832	27596.9
961.314	27479.5
961.796	28399.2
962.278	27153.7
962.76	27089.4
963.242	29028.5
963.724	27057.1
964.206	27273.5
964.688	29972.5
965.17	27535.1
965.652	28610.7
966.134	31901.2
966.616	29423.3
967.098	30706.3
967.58	31443.8
968.062	28670
968.544	28055.1
969.026	31294.8
969.509	28305.1
969.991	28410.4
970.473	33018.9
970.955	28931.7
971.437	34367.9
971.919	34186.1
972.401	28860.9
972.883	28861.4
973.365	36210.8
973.847	32430.1
974.329	30218.8
974.811	31430.3
975.293	28922.1
975.775	34698.4
976.257	31750.3

WN	INT
976.739	28732.5
977.221	34034.6
977.703	30025.2
978.186	28619.3
978.668	30265.2
979.15	27773.7
979.632	30145.2
980.114	26924.3
980.596	27214.7
981.078	29110.5
981.56	28041.5
982.042	29581.7
982.524	26260.7
983.006	26696.2
983.488	27393.6
983.97	27742
984.452	28332.9
984.934	26027.1
985.416	27210.8
985.898	25798.9
986.38	26269.5
986.863	26011
987.345	26065.5
987.827	26092.1
988.309	25646.6
988.791	26548
989.273	25873.4
989.755	26044.1
990.237	26888
990.719	25982.8
991.201	25569.2
991.683	26509.1
992.165	25989
992.647	26328.8
993.129	26527.3
993.611	25650.4
994.093	25961.2
994.575	27046.2
995.057	26151.7
995.54	26876
996.022	25863.1
996.504	25984.4
996.986	27391.9
997.468	26464.4
997.95	26677.2
998.432	27419
998.914	30546.4

WN	INT
999.396	27437.2
999.878	27714.9
1000.36	30654.1
1000.84	28050.4
1001.32	27073.7
1001.8	27445.9
1002.28	28512.6
1002.77	27058.7
1003.25	28296.7
1003.73	29985.1
1004.21	28442.4
1004.69	29277
1005.18	27373.4
1005.66	28360.2
1006.14	28648.1
1006.62	28214.9
1007.1	29771.6
1007.59	28196
1008.07	28589.4
1008.55	28872.1
1009.03	28517.8
1009.51	30185.4
1010	33396.6
1010.48	29690.9
1010.96	32359.4
1011.44	29502.6
1011.92	30719.7
1012.41	29373.3
1012.89	29153.5
1013.37	29791
1013.85	29914.8
1014.34	34843.5
1014.82	31811.7
1015.3	30188.8
1015.78	29939.7
1016.26	29744
1016.75	30322.4
1017.23	30039
1017.71	33449.9
1018.19	30923.4
1018.67	30903
1019.16	30308.3
1019.64	30035.3
1020.12	30100.5
1020.6	29688.7
1021.08	30117.1
1021.57	28915.8

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WN	INT	WN	INT	WN	INT
1022.05	30145.6	1044.71	25891	1067.36	22930
1022.53	29753.9	1045.19	27303	1067.84	21811.7
1023.01	30594.6	1045.67	25298.1	1068.33	21048.5
1023.49	29949.9	1046.15	27284.8	1068.81	22026.9
1023.98	29904.3	1046.63	28421.1	1069.29	21151.5
1024.46	30024.2	1047.12	27300.7	1069.77	19731.7
1024.94	30517.1	1047.6	28353.7	1070.25	20993.1
1025.42	30127.5	1048.08	28774.9	1070.74	20572.6
1025.91	29302.7	1048.56	28891.8	1071.22	19164.8
1026.39	29475.9	1049.04	29882.8	1071.7	20996.7
1026.87	29952.9	1049.53	30331.8	1072.18	20361.3
1027.35	30005.6	1050.01	28624.4	1072.66	22569.4
1027.83	29320.6	1050.49	30778.7	1073.15	21507.6
1028.32	32893.3	1050.97	30561.4	1073.63	19634.5
1028.8	31378.1	1051.45	30698.6	1074.11	22939.2
1029.28	31164.4	1051.94	30175.6	1074.59	25690.9
1029.76	32069.3	1052.42	30313	1075.07	19919.4
1030.24	29960.9	1052.9	29990.2	1075.56	19051.1
1030.73	30809.9	1053.38	29959.9	1076.04	22737.5
1031.21	30234.9	1053.86	30928.6	1076.52	18168.3
1031.69	29685.8	1054.35	29701.7	1077	19057.6
1032.17	30234.4	1054.83	30325.5	1077.48	20369.8
1032.65	30296.1	1055.31	30635.6	1077.97	17846.3
1033.14	30398.4	1055.79	30771.9	1078.45	19988.5
1033.62	29695.4	1056.27	30396.7	1078.93	18230.9
1034.1	29224.6	1056.76	28173.1	1079.41	17660
1034.58	29354.4	1057.24	30508.5	1079.9	20593.9
1035.06	29397	1057.72	28831	1080.38	17377
1035.55	29660.2	1058.2	28692.2	1080.86	18419
1036.03	28594.3	1058.68	29263.2	1081.34	19743.7
1036.51	28868.4	1059.17	28626.7	1081.82	17385.7
1036.99	28660.3	1059.65	28326.9	1082.31	19622
1037.47	29813.4	1060.13	30195.9	1082.79	16662.9
1037.96	28590.4	1060.61	28022.3	1083.27	17937.3
1038.44	29159.4	1061.1	27419.9	1083.75	17560.9
1038.92	28404.8	1061.58	26945.9	1084.23	16984.3
1039.4	31201.2	1062.06	26361	1084.72	19103.8
1039.88	28792.8	1062.54	28631	1085.2	18149.4
1040.37	28515.1	1063.02	25003.7	1085.68	19557.8
1040.85	28493.1	1063.51	25734.9	1086.16	16646.6
1041.33	29511.6	1063.99	23668	1086.64	16994.6
1041.81	27137.5	1064.47	24739.4	1087.13	17067.5
1042.29	25229.6	1064.95	23883.9	1087.61	16826.9
1042.78	25629.4	1065.43	24123.6	1088.09	17905.6
1043.26	26728.5	1065.92	28490.5	1088.57	16368.3
1043.74	23960.5	1066.4	28570.9	1089.05	17234.8
1044.22	23943.7	1066.88	23931.5	1089.54	16184.5

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1090.02	16965	1112.68	15572.9	1135.33	22782.3
1090.5	16620.3	1113.16	15105.7	1135.81	23551.3
1090.98	20966.3	1113.64	14927.1	1136.3	21944.2
1091.46	20869.1	1114.12	14853.3	1136.78	20396.3
1091.95	17226.6	1114.6	15168.5	1137.26	22860.2
1092.43	16065.2	1115.09	14751.2	1137.74	21691.6
1092.91	16059.7	1115.57	14668.2	1138.22	18078.2
1093.39	15656.8	1116.05	14541.5	1138.71	16597.1
1093.87	15755.9	1116.53	14714.9	1139.19	16041.8
1094.36	15504.5	1117.01	14793.5	1139.67	15671.2
1094.84	15663.9	1117.5	16771.9	1140.15	15712.3
1095.32	15338.8	1117.98	15117.7	1140.63	15306.5
1095.8	15326.1	1118.46	14949.1	1141.12	14913
1096.29	15318.1	1118.94	14934.6	1141.6	17122.1
1096.77	15389	1119.42	14865.4	1142.08	15013.7
1097.25	15242	1119.91	15059.9	1142.56	14377.2
1097.73	15383.2	1120.39	16867	1143.04	14794.8
1098.21	15448.5	1120.87	21652.4	1143.53	14831.7
1098.7	15780.9	1121.35	21691.7	1144.01	14543.4
1099.18	17222.6	1121.83	17172.3	1144.49	14844
1099.66	22102.5	1122.32	15735.7	1144.97	14455.3
1100.14	17472.6	1122.8	14733.8	1145.45	14948
1100.62	16500.9	1123.28	14464.4	1145.94	14924.3
1101.11	19186.8	1123.76	15130.4	1146.42	14728.5
1101.59	21801.9	1124.24	14295.8	1146.9	15694.4
1102.07	17094.2	1124.73	13998.3	1147.38	15115.1
1102.55	16372.6	1125.21	13897.4	1147.87	16157.2
1103.03	15931.1	1125.69	13937.1	1148.35	16346.3
1103.52	15999.2	1126.17	13940.1	1148.83	18053.5
1104	15772.3	1126.65	13574.2	1149.31	22276.2
1104.48	15677.1	1127.14	13775.5	1149.79	20495.7
1104.96	16088.8	1127.62	13542.4	1150.28	17591
1105.44	16111.9	1128.1	13622.4	1150.76	17094.1
1105.93	16837	1128.58	13615.6	1151.24	19239.3
1106.41	20645	1129.06	13838.2	1151.72	21199.1
1106.89	22339	1129.55	14018.7	1152.2	21074.5
1107.37	17752	1130.03	14545.8	1152.69	21227.7
1107.85	16270.7	1130.51	14317.4	1153.17	18130.8
1108.34	16055.7	1130.99	14277.7	1153.65	16101.5
1108.82	15408.2	1131.48	14484.6	1154.13	16211.3
1109.3	15218.1	1131.96	15093.6	1154.61	16379.2
1109.78	15227.2	1132.44	14900	1155.1	15993
1110.26	15840.6	1132.92	15636.4	1155.58	15230.9
1110.75	16417.5	1133.4	16006.4	1156.06	14879
1111.23	20167	1133.89	16724.9	1156.54	15264.9
1111.71	21371.8	1134.37	17653.6	1157.02	14396.9
1112.19	16891.3	1134.85	19529.6	1157.51	14997.7

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Type: OFF STACK

WN	INT	WN	INT	WN	INT
1157.99	14824.6	1180.64	17308.6	1203.3	13535.5
1158.47	14683.8	1181.13	16431.6	1203.78	13488.1
1158.95	15235.9	1181.61	15335.1	1204.27	13069.8
1159.43	14223.4	1182.09	14869.3	1204.75	13363.9
1159.92	15098.5	1182.57	15244.5	1205.23	13952.6
1160.4	14745	1183.06	14672.1	1205.71	14744.6
1160.88	15590.6	1183.54	15604.2	1206.19	17140.4
1161.36	14809.3	1184.02	16997.2	1206.68	14243.8
1161.84	14815.3	1184.5	15923.8	1207.16	14638.4
1162.33	15149.3	1184.98	16041.6	1207.64	14178.9
1162.81	14957.7	1185.47	17764.6	1208.12	14299.3
1163.29	14996	1185.95	18686.1	1208.6	15906.6
1163.77	16092.6	1186.43	20413.5	1209.09	15961.6
1164.26	16284.7	1186.91	21150.5	1209.57	16108.8
1164.74	19105.7	1187.39	20893.1	1210.05	17201.2
1165.22	21555	1187.88	19303.1	1210.53	18121.9
1165.7	21104.5	1188.36	17237.9	1211.01	19921.9
1166.18	19342	1188.84	16552.4	1211.5	20206.7
1166.67	16458.9	1189.32	15373.9	1211.98	20419.6
1167.15	16432.1	1189.8	15392.8	1212.46	20500.2
1167.63	15098.2	1190.29	15888.7	1212.94	20013.8
1168.11	15113.4	1190.77	15624	1213.42	18301.1
1168.59	15047.5	1191.25	17996.6	1213.91	17069
1169.08	15923.1	1191.73	15292.3	1214.39	16589
1169.56	15620.7	1192.21	14991.9	1214.87	18420.4
1170.04	16588.3	1192.7	15073.3	1215.35	17566.7
1170.52	15845.6	1193.18	15036.4	1215.83	16758.5
1171	16338.6	1193.66	16043.4	1216.32	17383.9
1171.49	17168	1194.14	14200.4	1216.8	16179.1
1171.97	16481.2	1194.62	13878.2	1217.28	16572.1
1172.45	17426.5	1195.11	14811.3	1217.76	18522.2
1172.93	18603.4	1195.59	14798	1218.25	20118.4
1173.41	21090.5	1196.07	15614	1218.73	20195
1173.9	21937.9	1196.55	15263.9	1219.21	18854.5
1174.38	22170	1197.03	15874.4	1219.69	17918.8
1174.86	22012.9	1197.52	18184.2	1220.17	18104.2
1175.34	20724.1	1198	19890.4	1220.66	17811.9
1175.82	19007.8	1198.48	19619.5	1221.14	18446.1
1176.31	18203.6	1198.96	17564.9	1221.62	17313.2
1176.79	17775.4	1199.45	15741.7	1222.1	17247.1
1177.27	16554.1	1199.93	14702.9	1222.58	18167.4
1177.75	15880.4	1200.41	13995.6	1223.07	17127.7
1178.23	16158.8	1200.89	14273.4	1223.55	17480.4
1178.72	17311.1	1201.37	14481.6	1224.03	18603.2
1179.2	15717.4	1201.86	13856.5	1224.51	19408.6
1179.68	14757.3	1202.34	13782.8	1224.99	19811.4
1180.16	15656.8	1202.82	13570	1225.48	19729.6



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WN	INT
1225.96	19240
1226.44	17899.4
1226.92	17551
1227.4	15482.5
1227.89	14542.4
1228.37	14546.1
1228.85	16116.2
1229.33	17049.4
1229.81	15556.3
1230.3	16053.2
1230.78	13314
1231.26	12876.5
1231.74	12884
1232.22	12883.9
1232.71	13895.7
1233.19	14318
1233.67	13856
1234.15	12840.3
1234.64	12889.9
1235.12	13266.4
1235.6	13971.3
1236.08	16928.1
1236.56	16460.2
1237.05	17597
1237.53	16190.3
1238.01	15882.1
1238.49	15747.4
1238.97	17673.1
1239.46	17544.2
1239.94	17510.4
1240.42	16325.3
1240.9	17479.3
1241.38	16230.9
1241.87	17366.8
1242.35	17363.8
1242.83	18594.6
1243.31	18583.9
1243.79	18832.6
1244.28	18908.3
1244.76	18618
1245.24	18171.4
1245.72	17626.6
1246.2	16964.4
1246.69	17220.4
1247.17	15657.2
1247.65	17393.7
1248.13	17050.8

WN	INT
1248.61	17257.1
1249.1	16564.4
1249.58	16889.4
1250.06	16215.5
1250.54	15686.9
1251.02	16169.9
1251.51	17027.4
1251.99	16058.8
1252.47	17090.8
1252.95	15832
1253.44	17214.5
1253.92	16991.6
1254.4	16671.3
1254.88	16666.8
1255.36	15920.8
1255.85	15427.5
1256.33	15917
1256.81	16141.9
1257.29	16189.9
1257.77	15698.9
1258.26	16226.9
1258.74	16347.9
1259.22	16162
1259.7	16222.5
1260.18	16221.2
1260.67	16206.5
1261.15	16057.5
1261.63	15928
1262.11	15844.3
1262.59	15559.9
1263.08	15804.7
1263.56	15933
1264.04	16221.4
1264.52	15960.6
1265	16326.9
1265.49	16589.8
1265.97	16682.9
1266.45	16788.4
1266.93	16736.4
1267.41	16799.9
1267.9	17038.1
1268.38	17181.7
1268.86	17136.8
1269.34	17235.6
1269.83	17293.4
1270.31	17328.6
1270.79	17255.4

WN	INT
1271.27	17310.9
1271.75	17261.3
1272.24	17368.6
1272.72	17239.1
1273.2	17106
1273.68	16992.9
1274.16	16623.1
1274.65	16699.2
1275.13	16782.8
1275.61	16595.2
1276.09	16231.8
1276.57	16578
1277.06	16550.3
1277.54	16485
1278.02	16137.7
1278.5	15825.3
1278.98	16214.7
1279.47	16382.1
1279.95	16818.8
1280.43	16687.1
1280.91	16577.6
1281.39	16541.9
1281.88	16247.3
1282.36	16150.6
1282.84	16419.9
1283.32	16447.4
1283.8	16465.7
1284.29	16636.1
1284.77	16323.4
1285.25	15961.8
1285.73	16221.2
1286.22	16403.2
1286.7	16427.7
1287.18	16511.7
1287.66	16504.7
1288.14	16471
1288.63	16448.8
1289.11	16306.6
1289.59	16031.4
1290.07	16129.2
1290.55	16270.5
1291.04	15908.5
1291.52	15774.9
1292	15685.8
1292.48	15839.2
1292.96	15792.3
1293.45	15614.4

Filenam HMA0213  
Subfile: 0801

Type: OFF STACK

WN	INT	WN	INT	WN	INT
1293.93	15647	1316.58	14576.4	1339.24	12609.6
1294.41	15579.6	1317.07	14395.9	1339.72	12756.6
1294.89	15628	1317.55	14557.6	1340.21	12374.2
1295.37	15630.5	1318.03	14517	1340.69	12542.8
1295.86	15557.4	1318.51	14444.5	1341.17	12832
1296.34	15792.5	1318.99	14123	1341.65	12780.9
1296.82	15836	1319.48	14456.4	1342.13	12751
1297.3	15685.1	1319.96	14381.2	1342.62	12688.3
1297.78	15552.2	1320.44	14407.2	1343.1	12629.9
1298.27	15288.4	1320.92	14342.8	1343.58	12590.4
1298.75	15098.7	1321.41	14244.3	1344.06	12554.6
1299.23	15148.2	1321.89	14202.5	1344.54	12460.7
1299.71	15323	1322.37	14142.8	1345.03	12402.8
1300.19	15260.2	1322.85	14117.6	1345.51	12398.2
1300.68	15045.7	1323.33	14175.3	1345.99	12373.3
1301.16	15168.6	1323.82	14030.8	1346.47	12295.2
1301.64	15302.2	1324.3	13990.6	1346.95	12281.1
1302.12	15172.5	1324.78	13850.5	1347.44	12221.2
1302.6	15184.4	1325.26	13696.4	1347.92	12224.2
1303.09	15222	1325.74	13776.5	1348.4	12220.5
1303.57	15244.6	1326.23	13774.6	1348.88	12243.6
1304.05	15153.9	1326.71	13677.5	1349.36	12134.3
1304.53	15201.5	1327.19	13831.7	1349.85	12177.2
1305.02	15187	1327.67	13819.6	1350.33	12066.1
1305.5	15261	1328.15	13718.2	1350.81	12023.6
1305.98	15212.7	1328.64	13518	1351.29	12002.3
1306.46	15106.6	1329.12	13579	1351.77	11967.8
1306.94	15033.4	1329.6	13717.7	1352.26	11925.3
1307.43	14989.6	1330.08	13729.6	1352.74	11865.5
1307.91	15119.7	1330.56	13496.5	1353.22	11831.8
1308.39	15094.8	1331.05	13344.6	1353.7	11808.8
1308.87	14960.6	1331.53	13356.6	1354.18	11817.2
1309.35	14841.4	1332.01	13478.3	1354.67	11728
1309.84	14797	1332.49	13500.9	1355.15	11740.4
1310.32	14753.7	1332.97	13398.3	1355.63	11694.9
1310.8	14718.9	1333.46	13338.4	1356.11	11638.1
1311.28	14791.4	1333.94	13266.8	1356.6	11560.9
1311.76	14788.8	1334.42	13285.2	1357.08	11520.6
1312.25	14805.5	1334.9	13232.5	1357.56	11477.2
1312.73	14756.7	1335.38	13255.4	1358.04	11427.2
1313.21	14797.1	1335.87	13204	1358.52	11451.5
1313.69	14679.2	1336.35	13086.1	1359.01	11414.8
1314.17	14702.6	1336.83	12799	1359.49	11351.9
1314.66	14614.9	1337.31	13127.5	1359.97	11339.7
1315.14	14673	1337.8	13039.4	1360.45	11231.5
1315.62	14615.6	1338.28	12833.7	1360.93	10701.3
1316.1	14616.2	1338.76	12605	1361.42	11171.5

Filenam HMA0213  
Subfile: 0801

Type: OFF STACK

WN	INT
1361.9	11189.9
1362.38	10998.8
1362.86	10563.3
1363.34	9997.25
1363.83	11146.2
1364.31	11136.1
1364.79	11100.2
1365.27	11044.8
1365.75	11035.2
1366.24	11000.2
1366.72	10962.7
1367.2	10931.5
1367.68	10918.4
1368.16	10815
1368.65	10491.5
1369.13	10897.3
1369.61	10879.2
1370.09	10821
1370.57	10805.2
1371.06	10728.6
1371.54	10686.4
1372.02	10691.4
1372.5	10639.7
1372.99	10572.1
1373.47	10133.6
1373.95	9705.58
1374.43	10432.6
1374.91	10121.9
1375.4	10334.3
1375.88	10512.3
1376.36	10471
1376.84	10428.3
1377.32	10416.4
1377.81	10328
1378.29	10353
1378.77	10372.8
1379.25	10329.4
1379.73	10275.3
1380.22	10300.6
1380.7	10264.8
1381.18	10198.3
1381.66	10191.5
1382.14	10181.5
1382.63	10132
1383.11	10138.7
1383.59	10096.5
1384.07	10034.1

WN	INT
1384.55	10043.2
1385.04	10014.6
1385.52	9964.57
1386	9889.2
1386.48	9626.75
1386.96	9573.62
1387.45	8332.03
1387.93	9723.71
1388.41	9852.21
1388.89	9814.66
1389.37	9776.36
1389.86	9699.3
1390.34	9682.89
1390.82	9625.44
1391.3	9619.9
1391.79	9560.18
1392.27	9546.75
1392.75	9514.12
1393.23	9477.06
1393.71	9313.98
1394.2	8467.36
1394.68	8047.26
1395.16	9155.71
1395.64	8779.41
1396.12	9114.75
1396.61	9252.54
1397.09	9212.58
1397.57	8945.04
1398.05	9069
1398.53	8984.32
1399.02	8136.74
1399.5	8580.61
1399.98	9099.77
1400.46	9086.15
1400.94	9095.85
1401.43	9095.37
1401.91	9061.43
1402.39	9028.69
1402.87	9044.02
1403.35	9020.31
1403.84	8985.88
1404.32	8874.96
1404.8	8312.08
1405.28	8612.71
1405.76	8923.81
1406.25	8927.71
1406.73	8921.06

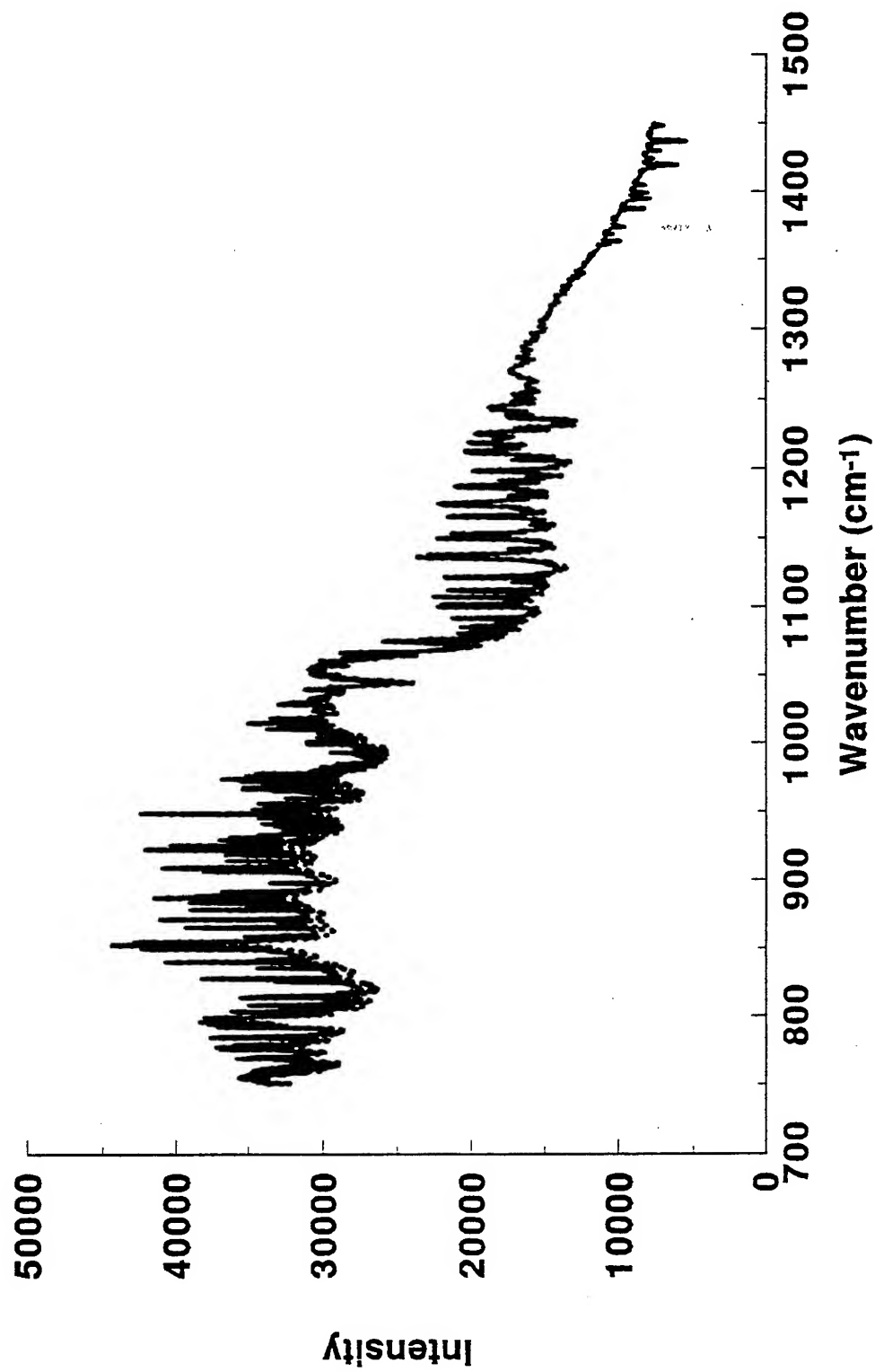
WN	INT
1407.21	8886.61
1407.69	8856.06
1408.18	8854.36
1408.66	8860.38
1409.14	8822.03
1409.62	8803.77
1410.1	8754.59
1410.59	8770.77
1411.07	8707.81
1411.55	8626.74
1412.03	8612.42
1412.51	8645.19
1413	8617.04
1413.48	8585.53
1413.96	8543.72
1414.44	8525.66
1414.92	8484.73
1415.41	8432.09
1415.89	8271.34
1416.37	8280.09
1416.85	8181.82
1417.33	7656.17
1417.82	8146.08
1418.3	8092.9
1418.78	7357.29
1419.26	6118.38
1419.74	6862.53
1420.23	8103.82
1420.71	8216.96
1421.19	8243.69
1421.67	8245.49
1422.15	8270.65
1422.64	8246.1
1423.12	8178.81
1423.6	7799.12
1424.08	7758.46
1424.57	8323.76
1425.05	8339.85
1425.53	8331.12
1426.01	8300.97
1426.49	8282.29
1426.98	8246.17
1427.46	8247.2
1427.94	8189.2
1428.42	8154.92
1428.9	8151.72
1429.39	7952.25

Filenam HMA0213  
Subfile: 0801

Type: OFF STACK

WN	INT
1429.87	7273.73
1430.35	8058
1430.83	8128.04
1431.31	8105.69
1431.8	8068.01
1432.28	8040.04
1432.76	8009.42
1433.24	7873.8
1433.72	8043.2
1434.21	8032
1434.69	7977.8
1435.17	7917.86
1435.65	7688.66
1436.13	7199.39
1436.62	5496.08
1437.1	6627.86
1437.58	7864.61
1438.06	7974.92
1438.54	7998.78
1439.03	7996.4
1439.51	7994.94
1439.99	7987.72
1440.47	7982.99
1440.95	7975.66
1441.44	7973.34
1441.92	7950.8
1442.4	7953.02
1442.88	7979.68
1443.37	7981.97
1443.85	7965.68
1444.33	7941.94
1444.81	7913.05
1445.29	7938.04
1445.78	7948.91
1446.26	7885.79
1446.74	7855.77
1447.22	7771.86
1447.7	7172.72
1448.19	7150.88
1448.67	7805.51
1449.15	7799.03
1449.63	7740.37
1450.11	7716.75

**ON and OFF STACK Response**  
**HMA0213**



Filenam HMA0213  
Subfile: 0901

Type: ON STACK

WN	INT	WN	INT	WN	INT
750.173	33834.7	772.83	31679.5	795.486	37118.6
750.655	32403.5	773.312	30476	795.969	38362.4
751.137	34427.8	773.794	30888.4	796.451	36418.2
751.619	34341.5	774.276	33166.5	796.933	35192
752.101	34210.7	774.758	31589.2	797.415	36701.6
752.583	34644.2	775.24	35082.3	797.897	36311.6
753.066	34808.9	775.722	36987.3	798.379	37978.7
753.548	33941.4	776.204	33696.5	798.861	38069.5
754.03	35423.4	776.686	36354.5	799.343	35684.4
754.512	35666.5	777.168	37234.7	799.825	32859.6
754.994	34957.1	777.65	33315.4	800.307	31582.5
755.476	33982.6	778.132	31966.5	800.789	30353.9
755.958	35535.9	778.614	32399.3	801.271	30185.6
756.44	32808.6	779.097	36011.9	801.753	31334.7
756.922	33547.3	779.579	35107.2	802.235	30226.1
757.404	35040.7	780.061	31553.6	802.717	32822.4
757.886	31600.9	780.543	32320.3	803.199	36065.4
758.368	31481.2	781.025	30684.7	803.681	36160.2
758.85	34814.7	781.507	30598.4	804.163	30922.2
759.332	31344.9	781.989	31582.5	804.646	30922.4
759.814	30814.3	782.471	30534.4	805.128	28449.1
760.296	34633.4	782.953	31166.9	805.61	28281.3
760.778	32192	783.435	32458.2	806.092	32474.4
761.26	30380.2	783.917	35342.8	806.574	29961.7
761.743	34092.9	784.399	37620.3	807.056	28319.1
762.225	30637.5	784.881	36356.9	807.538	29256.8
762.707	29900.8	785.363	33326.8	808.02	34976.8
763.189	33001.6	785.845	31174.1	808.502	33545.6
763.671	30630.5	786.327	30309	808.984	29032.8
764.153	29531.4	786.809	30961.3	809.466	30195.4
764.635	32278.9	787.292	29731.9	809.948	28052.1
765.117	31272.3	787.774	30285.9	810.43	28004.3
765.599	29476.1	788.256	30089.1	810.912	29931.9
766.081	32018.3	788.738	29394.9	811.394	27792.9
766.563	31999.7	789.22	29435.9	811.876	27917.5
767.045	30748.8	789.702	29793.3	812.358	29364
767.527	33308.8	790.184	29737.4	812.84	28242.7
768.009	32561.2	790.666	29937.4	813.322	29213.7
768.491	31291.4	791.148	31333	813.805	35528.1
768.973	35809.7	791.63	37144.1	814.287	34393.1
769.455	33459	792.112	36279.5	814.769	33666
769.937	34781.6	792.594	33842.1	815.251	29202
770.42	33550.1	793.076	32974.7	815.733	29786.8
770.902	31824	793.558	35196	816.215	28272.5
771.384	31421.3	794.04	37784.9	816.697	28782
771.866	30949.4	794.522	33867	817.179	28995.3
772.348	30815.3	795.004	33930.4	817.661	27430.5

Filenam HMA0213  
Subfile: 0901

Type: ON STACK

WN	INT
818.143	27445.6
818.625	28102.8
819.107	27237.4
819.589	27278.9
820.071	27540.3
820.553	27486.5
821.035	27383.8
821.517	27483.3
822	28030.3
822.482	27779.8
822.964	27845.5
823.446	28438.8
823.928	27891.7
824.41	28357
824.892	31163.7
825.374	33249.2
825.856	28943.3
826.338	29130.6
826.82	30247.5
827.302	34185.3
827.784	38235.1
828.266	31683.3
828.748	29704.5
829.23	29339.2
829.712	29329.5
830.194	29085.3
830.677	29663.1
831.159	29232.4
831.641	29046.5
832.123	29068
832.605	29975.7
833.087	29309.2
833.569	29317.1
834.051	29950.7
834.533	29794.4
835.015	30337.8
835.497	34422.8
835.979	30005
836.461	29856.4
836.943	30015.3
837.425	30189.4
837.907	30706.8
838.389	30664.7
838.871	30965.6
839.353	32387.9
839.836	40675.2
840.318	37834.8

WN	INT
840.8	31933.2
841.282	32144
841.764	34447.3
842.246	32637.2
842.728	31657.9
843.21	31480.4
843.692	31577.9
844.174	31765.5
844.656	31800.4
845.138	32004
845.62	32518.3
846.102	32257.7
846.584	32454.1
847.066	32841.4
847.548	33706.8
848.03	33345
848.513	33446.8
848.995	35110.8
849.477	42352.4
849.959	37927.8
850.441	34699.1
850.923	34694.7
851.405	35760.2
851.887	37476
852.369	44362.5
852.851	44345.6
853.333	40529.7
853.815	37148.1
854.297	39687.5
854.779	42844
855.261	35350.8
855.743	33626
856.225	32781.5
856.707	32309.4
857.19	32000.7
857.672	31688.8
858.154	31450.6
858.636	35279.5
859.118	31392.6
859.6	32770.6
860.082	30837.2
860.564	30645.4
861.046	30558.6
861.528	30488.4
862.01	30517.4
862.492	30706
862.974	30569.8

WN	INT
863.456	30661.4
863.938	30956.1
864.42	31588.5
864.902	37124.9
865.384	39347.7
865.867	32567.7
866.349	31254.5
866.831	31135.2
867.313	31394.4
867.795	33085.3
868.277	31875.3
868.759	31367.4
869.241	31290.4
869.723	31375
870.205	31501
870.687	32899.9
871.169	41055.6
871.651	35887.6
872.133	32275.2
872.615	32354.2
873.097	31280.6
873.579	31286
874.061	31134
874.544	31003.6
875.026	31076.2
875.508	31238.2
875.99	31699.3
876.472	31248.6
876.954	31283.2
877.436	31460.5
877.918	32437.5
878.4	38995.1
878.882	35682.9
879.364	32181.9
879.846	31795.5
880.328	31836.9
880.81	33010.7
881.292	35156.9
881.774	32349.2
882.256	32299.4
882.738	32766.2
883.221	36741.7
883.703	39083.3
884.185	35683.3
884.667	33050
885.149	32662.5
885.631	32680.4

Filenam HMA0213  
Subfile: 0901

Type: ON STACK

WN	INT	WN	INT	WN	INT
886.113	32884.4	908.769	40874.3	931.426	34361.3
886.595	34053.6	909.252	39838.7	931.908	34428.4
887.077	41432.6	909.734	33931.5	932.39	32799.9
887.559	38337.8	910.216	35262.1	932.872	34252.6
888.041	35828.5	910.698	33572.2	933.354	31657.7
888.523	38636.1	911.18	32119.7	933.836	31282.2
889.005	33829.3	911.662	31915.4	934.318	31609.7
889.487	32684.3	912.144	32155.2	934.801	32826.1
889.969	35250.6	912.626	31856.7	935.283	30852.4
890.451	32645.3	913.108	31756.2	935.765	30588.9
890.933	32382.4	913.59	31851.7	936.247	30505.5
891.415	36855.8	914.072	36457.1	936.729	32834.3
891.898	33084	914.554	32121.7	937.211	30657.2
892.38	32773.6	915.036	31987	937.693	30094.8
892.862	31637.6	915.518	32002.9	938.175	30272
893.344	31512.3	916	31756.1	938.657	33262.6
893.826	31233.4	916.482	32131.6	939.139	29812.3
894.308	31085.3	916.964	31622.3	939.621	29777.1
894.79	30965.6	917.446	31822.2	940.103	29966.8
895.272	30921.9	917.929	31921.8	940.585	33968.4
895.754	30951.6	918.411	36587.4	941.067	34065.6
896.236	31111.5	918.893	32215.2	941.549	29888.4
896.718	31258.4	919.375	31953.6	942.031	30129.1
897.2	30649	919.857	32142.2	942.513	33242.1
897.682	33545	920.339	31915.8	942.995	29918.5
898.164	30581	920.821	33136	943.478	29925.4
898.646	30421.9	921.303	36862.6	943.96	31639.9
899.128	30284.2	921.785	36053.1	944.442	32684.7
899.61	30285.8	922.267	42069.8	944.924	34308.4
900.092	30350.3	922.749	34318.4	945.406	30381.6
900.575	30535	923.231	33723.9	945.888	33780.3
901.057	30526.6	923.713	33149.4	946.37	30527.8
901.539	30427.4	924.195	33049.7	946.852	31415.4
902.021	30694.3	924.677	35274	947.334	31057.8
902.503	31095.6	925.159	40374.4	947.816	36832
902.985	30985.6	925.641	35227	948.298	42370.2
903.467	30939	926.124	33209.7	948.78	32769.3
903.949	31146.7	926.606	32570.2	949.262	32806.8
904.431	31235.5	927.088	34699.1	949.744	32298.4
904.913	31400.9	927.57	34148	950.226	30552.1
905.395	32663.5	928.052	32978	950.708	30503.6
905.877	31955.6	928.534	34083.3	951.19	34709.4
906.359	38118.8	929.016	36998.9	951.672	31068.5
906.841	34297.5	929.498	32702.8	952.155	30161.5
907.323	32109.9	929.98	34288.3	952.637	31277.2
907.805	33168	930.462	33607.6	953.119	33961.2
908.287	35977	930.944	36243.3	953.601	33724.6



Filenam HMA0213  
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Type: ON STACK

WN	INT
954.083	31460.9
954.565	33737.7
955.047	32628.9
955.529	34302.4
956.011	31894.8
956.493	30091.7
956.975	29084.8
957.457	29118.6
957.939	30973
958.421	28755.5
958.903	29433.6
959.385	32520
959.867	30965.8
960.349	29198.7
960.832	29545.6
961.314	29326.6
961.796	30215.4
962.278	30098.2
962.76	29248.9
963.242	31442
963.724	29984.4
964.206	30052.3
964.688	33388.9
965.17	31442.4
965.652	32564.9
966.134	35383.7
966.616	33159.5
967.098	34860.4
967.58	35357.3
968.062	31752.4
968.544	29909.3
969.026	32695
969.509	29895
969.991	29746.9
970.473	34049
970.955	30190.9
971.437	35325.6
971.919	35534.4
972.401	30041.2
972.883	29829.9
973.365	36809.7
973.847	33233.3
974.329	31020.3
974.811	32196.5
975.293	29720.6
975.775	35162.3
976.257	32488.9

WN	INT
976.739	29462.8
977.221	34512.2
977.703	30805.2
978.186	29325.1
978.668	30933.3
979.15	28495.8
979.632	30721.6
980.114	27684.9
980.596	27932.1
981.078	29766.5
981.56	28729
982.042	30156.9
982.524	27040.2
983.006	27426.8
983.488	28108
983.97	28414.2
984.452	29020.1
984.934	26828.1
985.416	27858.6
985.898	26580.3
986.38	27019.2
986.863	26811.1
987.345	26863.5
987.827	26896.3
988.309	26466.3
988.791	27351.1
989.273	26701.5
989.755	26846.5
990.237	27705
990.719	26848.3
991.201	26482.9
991.683	28005.7
992.165	27278.6
992.647	29430.9
993.129	27652
993.611	26564.9
994.093	26759.5
994.575	27843.2
995.057	26913.6
995.54	27583
996.022	26659.1
996.504	26708.4
996.986	28021.5
997.468	27146.8
997.95	27311.1
998.432	28053.3
998.914	31068.7

WN	INT
999.396	28027.4
999.878	28258.7
1000.36	31128
1000.84	28590.2
1001.32	27648.2
1001.8	27967.4
1002.28	28983
1002.77	27611.3
1003.25	28782.7
1003.73	30471.4
1004.21	28970.1
1004.69	29719.2
1005.18	27940.4
1005.66	28903.7
1006.14	29192.2
1006.62	28762
1007.1	30384.1
1007.59	30319.9
1008.07	29229.3
1008.55	29435
1009.03	29068.3
1009.51	30592.6
1010	33762.5
1010.48	30168.7
1010.96	33069.7
1011.44	30423.2
1011.92	31197
1012.41	30405.5
1012.89	29833
1013.37	30669.2
1013.85	30337.9
1014.34	35011.5
1014.82	32180.9
1015.3	30477.3
1015.78	30255.2
1016.26	30022
1016.75	30545.9
1017.23	30269.7
1017.71	33543.9
1018.19	31196.7
1018.67	31037.4
1019.16	30510.1
1019.64	30204.5
1020.12	30278.8
1020.6	29851.5
1021.08	30271.5
1021.57	29106.1

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1022.05	30286.9	1044.71	26147.4	1067.36	23253.9
1022.53	29893.2	1045.19	27554.9	1067.84	22464.7
1023.01	30747.4	1045.67	25682.3	1068.33	21520.8
1023.49	30092.2	1046.15	28288.7	1068.81	22368.5
1023.98	30035.8	1046.63	29423	1069.29	21547.8
1024.46	30169.2	1047.12	27652	1069.77	20177.6
1024.94	30629.3	1047.6	28556.7	1070.25	21361.8
1025.42	30270.2	1048.08	28947	1070.74	21187.6
1025.91	29477.7	1048.56	29035.3	1071.22	19614.9
1026.39	29701.6	1049.04	30002	1071.7	21326.4
1026.87	30490.3	1049.53	30526.7	1072.18	20840.9
1027.35	30390.7	1050.01	28790.7	1072.66	23080.4
1027.83	29579.2	1050.49	30807.2	1073.15	21849.7
1028.32	33001.3	1050.97	30639.3	1073.63	20152
1028.8	31545.3	1051.45	30886.8	1074.11	23478.7
1029.28	31305.9	1051.94	30232.1	1074.59	25861.8
1029.76	32267.1	1052.42	30381.5	1075.07	20585.3
1030.24	30313.6	1052.9	30189.7	1075.56	19645.2
1030.73	31070.9	1053.38	30203.2	1076.04	23413.4
1031.21	30438.7	1053.86	30992	1076.52	18725
1031.69	29980.6	1054.35	29984.9	1077	19450.3
1032.17	30981.1	1054.83	30460.8	1077.48	20778.5
1032.65	30550	1055.31	30651.3	1077.97	18267.6
1033.14	30781.6	1055.79	30757.6	1078.45	20270.2
1033.62	30124.3	1056.27	30351.2	1078.93	18665.2
1034.1	30357.3	1056.76	28232.5	1079.41	18067.7
1034.58	29810.8	1057.24	30453.6	1079.9	20896.7
1035.06	29645.5	1057.72	28871.1	1080.38	17855.7
1035.55	29857.6	1058.2	28701.6	1080.86	18775.4
1036.03	28777.2	1058.68	29313.4	1081.34	20135.1
1036.51	29035.8	1059.17	28687.5	1081.82	17839.2
1036.99	28847.7	1059.65	28404.1	1082.31	19964.4
1037.47	29915.3	1060.13	30216.2	1082.79	17130.7
1037.96	28727.9	1060.61	28118.6	1083.27	18311.8
1038.44	29292.1	1061.1	27511.2	1083.75	18062.3
1038.92	28575.5	1061.58	27072	1084.23	17887
1039.4	31237.8	1062.06	26494.2	1084.72	20719.7
1039.88	28969	1062.54	28712.7	1085.2	18717.7
1040.37	28689.9	1063.02	25247.6	1085.68	19961
1040.85	28638.7	1063.51	25912	1086.16	17224.9
1041.33	29618.6	1063.99	23956.9	1086.64	17450.9
1041.81	27369.5	1064.47	24977.3	1087.13	17516.6
1042.29	25543.7	1064.95	24275.9	1087.61	17278.9
1042.78	25983.6	1065.43	25302	1088.09	18334.1
1043.26	26983.7	1065.92	28774.6	1088.57	16803.3
1043.74	24331.1	1066.4	28773.9	1089.05	17694.3
1044.22	24272.8	1066.88	24318.9	1089.54	16865.8

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1090.02	17384.6	1112.68	15972.1	1135.33	22804.6
1090.5	17050.9	1113.16	15595.4	1135.81	23537.4
1090.98	21171.1	1113.64	15332.2	1136.3	22094
1091.46	21237.6	1114.12	15241.9	1136.78	20624.6
1091.95	17822.4	1114.6	15620.1	1137.26	22911.4
1092.43	16542.4	1115.09	15165.9	1137.74	21881.2
1092.91	16471.3	1115.57	15076.3	1138.22	18424
1093.39	16134.9	1116.05	15131.3	1138.71	16956.1
1093.87	16287.2	1116.53	15154.2	1139.19	16416.2
1094.36	15918.5	1117.01	15351	1139.67	16033.7
1094.84	16168.6	1117.5	17233.6	1140.15	16103.3
1095.32	16042.4	1117.98	15573.6	1140.63	16462.9
1095.8	15817.5	1118.46	15364.6	1141.12	15415.7
1096.29	15953.5	1118.94	15326.4	1141.6	17460.3
1096.77	16048.4	1119.42	15252.6	1142.08	15404.2
1097.25	15682.4	1119.91	15457.8	1142.56	14766.1
1097.73	15813.8	1120.39	17204.9	1143.04	15158.4
1098.21	15868.7	1120.87	21720.1	1143.53	15173.3
1098.7	16187.5	1121.35	21793	1144.01	14953.8
1099.18	17531.1	1121.83	17878.4	1144.49	15186.2
1099.66	22223.8	1122.32	17103.2	1144.97	14835
1100.14	17900.2	1122.8	15301.9	1145.45	15278.2
1100.62	16927.3	1123.28	14927.9	1145.94	15255.2
1101.11	19413.2	1123.76	15582	1146.42	15081.5
1101.59	22004.2	1124.24	14717.2	1146.9	15954.5
1102.07	17516.4	1124.73	14434.7	1147.38	15443.7
1102.55	16779.6	1125.21	14323.7	1147.87	16433.8
1103.03	16611.5	1125.69	14344.7	1148.35	16593
1103.52	17805.9	1126.17	14367.6	1148.83	18222.9
1104	16322.7	1126.65	13962.7	1149.31	22245.8
1104.48	16179.2	1127.14	14167	1149.79	20670.3
1104.96	16503.7	1127.62	13945.4	1150.28	17852.2
1105.44	16515.8	1128.1	14035.9	1150.76	17338.6
1105.93	17209.5	1128.58	14028.3	1151.24	19389.3
1106.41	20818.2	1129.06	14256.6	1151.72	21305.5
1106.89	22504.6	1129.55	14428.2	1152.2	21141.2
1107.37	18159.3	1130.03	14894.3	1152.69	21327.3
1107.85	16735.1	1130.51	14692.3	1153.17	18388
1108.34	16457.7	1130.99	14645.3	1153.65	16404.3
1108.82	15824.4	1131.48	14881.8	1154.13	16475.2
1109.3	15593.6	1131.96	15514.3	1154.61	16684.5
1109.78	15598.1	1132.44	15268.5	1155.1	16278.9
1110.26	16234.9	1132.92	15960.9	1155.58	15519.3
1110.75	16952.3	1133.4	16306.5	1156.06	15214.2
1111.23	20297.6	1133.89	17036.8	1156.54	15572.2
1111.71	21556.3	1134.37	17905.3	1157.02	14731.8
1112.19	17262.9	1134.85	19694.2	1157.51	15357.2

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1157.99	15185.3	1180.64	17426.6	1203.3	13777.3
1158.47	15095.9	1181.13	16680.9	1203.78	13719.6
1158.95	15970	1181.61	15584.8	1204.27	13330.4
1159.43	14628.1	1182.09	15127.7	1204.75	13609.2
1159.92	15384.7	1182.57	15450	1205.23	14203.2
1160.4	15068.2	1183.06	14938	1205.71	14896.7
1160.88	15848	1183.54	15781.9	1206.19	17249.8
1161.36	15117.2	1184.02	17109.2	1206.68	14513
1161.84	15147	1184.5	16121.6	1207.16	14839.2
1162.33	15396.2	1184.98	16214.4	1207.64	14428.2
1162.81	15259.4	1185.47	17872.6	1208.12	14492.6
1163.29	15273.5	1185.95	18749.4	1208.6	15998.2
1163.77	16314.7	1186.43	20384.5	1209.09	16113.3
1164.26	16548.8	1186.91	21076.2	1209.57	16258.9
1164.74	19204	1187.39	20866.3	1210.05	17290.2
1165.22	21546.5	1187.88	19381.6	1210.53	18134.4
1165.7	21140.9	1188.36	17424.7	1211.01	19868.2
1166.18	19493.8	1188.84	16733.8	1211.5	20120.9
1166.67	16703.7	1189.32	15615.6	1211.98	20362.6
1167.15	16678.3	1189.8	15614.1	1212.46	20427.8
1167.63	15404.4	1190.29	16091.3	1212.94	19957.1
1168.11	15371	1190.77	15817.6	1213.42	18390.5
1168.59	15303.6	1191.25	18074.5	1213.91	17195.6
1169.08	16148.5	1191.73	15547.1	1214.39	16709.8
1169.56	15887.8	1192.21	15224.9	1214.87	18428.1
1170.04	16829.6	1192.7	15299.7	1215.35	17648.4
1170.52	16101.6	1193.18	15229.1	1215.83	16871.4
1171	16565.4	1193.66	16264	1216.32	17423
1171.49	17360.1	1194.14	14478.6	1216.8	16308.1
1171.97	16686	1194.62	14149.1	1217.28	16669.9
1172.45	17604.3	1195.11	15139.4	1217.76	18476.9
1172.93	18713.7	1195.59	15046.6	1218.25	20025.4
1173.41	21077.9	1196.07	15787.2	1218.73	20134.4
1173.9	21903.6	1196.55	15496.6	1219.21	18849.1
1174.38	22152.8	1197.03	16069.7	1219.69	17943.9
1174.86	21980.1	1197.52	18230.6	1220.17	18102.7
1175.34	20770.9	1198	19863.5	1220.66	17849.7
1175.82	19131.6	1198.48	19631.4	1221.14	18452.1
1176.31	18383.3	1198.96	17716.5	1221.62	17347.8
1176.79	18020.9	1199.45	15964.1	1222.1	17307.7
1177.27	16934.6	1199.93	14943.8	1222.58	18143
1177.75	16162.7	1200.41	14270.2	1223.07	17166.3
1178.23	16380.7	1200.89	14503.6	1223.55	17488
1178.72	17487.4	1201.37	14696.4	1224.03	18567.8
1179.2	15933	1201.86	14128.2	1224.51	19352.3
1179.68	15047.3	1202.34	14026.5	1224.99	19701.3
1180.16	15867.8	1202.82	13784.9	1225.48	19647.6

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Type: ON STACK

WN	INT
1225.96	19180.9
1226.44	17938.8
1226.92	17598.5
1227.4	15638.3
1227.89	14729.7
1228.37	14710.4
1228.85	16170.1
1229.33	17045.9
1229.81	15656.4
1230.3	16131.1
1230.78	13558.8
1231.26	13111
1231.74	13090
1232.22	13090.9
1232.71	14053.9
1233.19	14419
1233.67	14010.4
1234.15	13043.3
1234.64	13089.1
1235.12	13427.2
1235.6	14065.6
1236.08	16913.9
1236.56	16463.7
1237.05	17533.3
1237.53	16245.7
1238.01	15927
1238.49	15764.2
1238.97	17605.4
1239.46	17524.6
1239.94	17473.2
1240.42	16370.4
1240.9	17449.7
1241.38	16264.4
1241.87	17304.9
1242.35	17304.5
1242.83	18479
1243.31	18467.4
1243.79	18674.3
1244.28	18774.7
1244.76	18517.6
1245.24	18058.3
1245.72	17554.5
1246.2	16918.1
1246.69	17165.8
1247.17	15682
1247.65	17302.8
1248.13	17016.9

WN	INT
1248.61	17194.2
1249.1	16527.1
1249.58	16802.5
1250.06	16207.5
1250.54	15647.7
1251.02	16129.1
1251.51	16949.2
1251.99	16039.4
1252.47	17021.7
1252.95	15821.3
1253.44	17098.7
1253.92	16889.2
1254.4	16572.3
1254.88	16586.8
1255.36	15865
1255.85	15393.7
1256.33	15833.3
1256.81	16045.1
1257.29	16093.2
1257.77	15621.8
1258.26	16100.5
1258.74	16243.7
1259.22	16053.9
1259.7	16094.2
1260.18	16099.6
1260.67	16088
1261.15	15944.4
1261.63	15834.3
1262.11	15735.8
1262.59	15475.5
1263.08	15682.8
1263.56	15819.6
1264.04	16081.2
1264.52	15856.1
1265	16198.3
1265.49	16449.2
1265.97	16543.4
1266.45	16645.2
1266.93	16588.1
1267.41	16657
1267.9	16888.5
1268.38	17039.4
1268.86	17013
1269.34	17054.1
1269.83	17118.8
1270.31	17168.7
1270.79	17116.4

WN	INT
1271.27	17150
1271.75	17116.3
1272.24	17193
1272.72	17104.8
1273.2	16949.5
1273.68	16866.6
1274.16	16489.3
1274.65	16580.3
1275.13	16642.5
1275.61	16474.5
1276.09	16111.3
1276.57	16458.4
1277.06	16390.7
1277.54	16350.7
1278.02	16030.2
1278.5	15722.3
1278.98	16091
1279.47	16275.3
1279.95	16640.2
1280.43	16541.1
1280.91	16434.2
1281.39	16393.8
1281.88	16119.4
1282.36	16016.5
1282.84	16250
1283.32	16285.1
1283.8	16313.7
1284.29	16480.6
1284.77	16196.7
1285.25	15869.1
1285.73	16095.3
1286.22	16274.9
1286.7	16290.4
1287.18	16367.6
1287.66	16340.9
1288.14	16316.8
1288.63	16290.1
1289.11	16180
1289.59	15906
1290.07	15984.5
1290.55	16092.7
1291.04	15813.9
1291.52	15652.4
1292	15568.7
1292.48	15708.3
1292.96	15678.5
1293.45	15471.5

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Type: ON STACK

WN	INT	WN	INT	WN	INT
1293.93	15517.2	1316.58	14413.6	1339.24	12493.2
1294.41	15449.5	1317.07	14237.5	1339.72	12634.2
1294.89	15483.1	1317.55	14395	1340.21	12306.9
1295.37	15496	1318.03	14357.3	1340.69	12433.8
1295.86	15416.4	1318.51	14280.7	1341.17	12687.7
1296.34	15639.8	1318.99	13992.9	1341.65	12656
1296.82	15691.1	1319.48	14301.6	1342.13	12620.5
1297.3	15546.5	1319.96	14241.3	1342.62	12582.9
1297.78	15427	1320.44	14254.4	1343.1	12515.2
1298.27	15160.9	1320.92	14182.9	1343.58	12457.9
1298.75	14994.4	1321.41	14090.9	1344.06	12415
1299.23	15006.4	1321.89	14070.7	1344.54	12345.2
1299.71	15176.8	1322.37	14013.3	1345.03	12305.2
1300.19	15133.7	1322.85	14013	1345.51	12289.7
1300.68	14915	1323.33	14028.3	1345.99	12242.3
1301.16	15055.1	1323.82	13916.3	1346.47	12195.3
1301.64	15158.3	1324.3	13874.2	1346.95	12174.5
1302.12	15068.8	1324.78	13733.8	1347.44	12113.4
1302.6	15067	1325.26	13574.5	1347.92	12092.8
1303.09	15065.9	1325.74	13656.7	1348.4	12081.8
1303.57	15107.2	1326.23	13664.3	1348.88	12080.8
1304.05	15027	1326.71	13568.4	1349.36	12009.5
1304.53	15052.7	1327.19	13692.1	1349.85	12026.7
1305.02	15053.5	1327.67	13704.6	1350.33	11945.9
1305.5	15116.5	1328.15	13580	1350.81	11913.4
1305.98	15087.8	1328.64	13406.2	1351.29	11887.4
1306.46	14974.1	1329.12	13460	1351.77	11836.8
1306.94	14902.8	1329.6	13577.2	1352.26	11810.6
1307.43	14860.7	1330.08	13583.6	1352.74	11731
1307.91	14972.4	1330.56	13385.1	1353.22	11705.1
1308.39	14954.7	1331.05	13225.8	1353.7	11676.6
1308.87	14828.9	1331.53	13224.3	1354.18	11679.4
1309.35	14727.2	1332.01	13342	1354.67	11605.3
1309.84	14686.6	1332.49	13386	1355.15	11616.6
1310.32	14618	1332.97	13287	1355.63	11577.4
1310.8	14601.6	1333.46	13212.9	1356.11	11519.4
1311.28	14653	1333.94	13165.5	1356.6	11461.4
1311.76	14641.3	1334.42	13151.7	1357.08	11415.1
1312.25	14658.6	1334.9	13090.5	1357.56	11358.7
1312.73	14604.5	1335.38	13125.6	1358.04	11308.3
1313.21	14629.3	1335.87	13092.9	1358.52	11319.2
1313.69	14535.9	1336.35	12966.4	1359.01	11283.5
1314.17	14535	1336.83	12678.9	1359.49	11253.3
1314.66	14467.1	1337.31	12970.5	1359.97	11214.6
1315.14	14526.6	1337.8	12911.5	1360.45	11120.2
1315.62	14464.6	1338.28	12698.9	1360.93	10594
1316.1	14467.7	1338.76	12500.5	1361.42	11023.8

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WN	INT
1361.9	11038.3
1362.38	10880.7
1362.86	10446.4
1363.34	9929.47
1363.83	11022.8
1364.31	11004.9
1364.79	10956.5
1365.27	10936.9
1365.75	10917.4
1366.24	10888.3
1366.72	10855.4
1367.2	10816.1
1367.68	10789.8
1368.16	10708.7
1368.65	10400.9
1369.13	10785.7
1369.61	10759.3
1370.09	10697.1
1370.57	10662.7
1371.06	10615
1371.54	10569.7
1372.02	10570
1372.5	10511.5
1372.99	10430.3
1373.47	10039
1373.95	9614.2
1374.43	10322.6
1374.91	10040.3
1375.4	10205.3
1375.88	10377.7
1376.36	10338.2
1376.84	10332.7
1377.32	10298.8
1377.81	10209.2
1378.29	10222.9
1378.77	10276.7
1379.25	10202.9
1379.73	10156.2
1380.22	10181.5
1380.7	10151.9
1381.18	10087.5
1381.66	10095.9
1382.14	10076.6
1382.63	10011.3
1383.11	10001.1
1383.59	9974.72
1384.07	9931.84

WN	INT
1384.55	9914.67
1385.04	9895.58
1385.52	9845.54
1386	9777.24
1386.48	9516.69
1386.96	9479.49
1387.45	8283.09
1387.93	9591.1
1388.41	9713.06
1388.89	9674.91
1389.37	9638.16
1389.86	9596.84
1390.34	9571.13
1390.82	9524.04
1391.3	9513.09
1391.79	9474.48
1392.27	9435.35
1392.75	9396.2
1393.23	9355.66
1393.71	9205.95
1394.2	8401.99
1394.68	7966.01
1395.16	9050.74
1395.64	8719.01
1396.12	9018.04
1396.61	9147.36
1397.09	9081.44
1397.57	8855.5
1398.05	8966.7
1398.53	8894.85
1399.02	8096.3
1399.5	8475.91
1399.98	8993.75
1400.46	8991.3
1400.94	8988.99
1401.43	8967.82
1401.91	8947.28
1402.39	8927.7
1402.87	8926.51
1403.35	8892.89
1403.84	8885.42
1404.32	8771.85
1404.8	8252
1405.28	8528.43
1405.76	8816.91
1406.25	8820.13
1406.73	8793.1

WN	INT
1407.21	8777.84
1407.69	8749.31
1408.18	8762.07
1408.66	8741.06
1409.14	8714.17
1409.62	8677.75
1410.1	8633.74
1410.59	8642.2
1411.07	8628.69
1411.55	8542.86
1412.03	8524.39
1412.51	8536.05
1413	8533.28
1413.48	8485.86
1413.96	8452.4
1414.44	8412.46
1414.92	8386.88
1415.41	8311.94
1415.89	8185.94
1416.37	8168.81
1416.85	8106.96
1417.33	7591.09
1417.82	8038.71
1418.3	7999.73
1418.78	7336.38
1419.26	6118.72
1419.74	6796.52
1420.23	8009.83
1420.71	8129.76
1421.19	8121.18
1421.67	8140.96
1422.15	8151.39
1422.64	8148.57
1423.12	8077.95
1423.6	7764.39
1424.08	7711.74
1424.57	8219.31
1425.05	8219.94
1425.53	8195.78
1426.01	8206.24
1426.49	8180.62
1426.98	8157.62
1427.46	8131.96
1427.94	8099.86
1428.42	8054.15
1428.9	8046.32
1429.39	7891.22

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Type: ON STACK

WN	INT
1429.87	7245.27
1430.35	7966.35
1430.83	8006.12
1431.31	8020.77
1431.8	7971.16
1432.28	7943.79
1432.76	7926.89
1433.24	7781.99
1433.72	7919.69
1434.21	7911.73
1434.69	7897.38
1435.17	7846.15
1435.65	7609.82
1436.13	7171.16
1436.62	5501.2
1437.1	6517.93
1437.58	7798.93
1438.06	7866.29
1438.54	7911.04
1439.03	7905.39
1439.51	7910.27
1439.99	7889.15
1440.47	7883.76
1440.95	7870.67
1441.44	7846.86
1441.92	7849.91
1442.4	7851.87
1442.88	7849.13
1443.37	7899.42
1443.85	7870.85
1444.33	7842.71
1444.81	7816.23
1445.29	7827.08
1445.78	7853.14
1446.26	7807.52
1446.74	7761.02
1447.22	7684.73
1447.7	7135.35
1448.19	7052.73
1448.67	7700.28
1449.15	7696.72
1449.63	7664.52
1450.11	7603.71